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AIR QUALITY DATA FOR NONMETALLIC INORGANIC IONS 1969 AND 1970 FROM THE NATIONAL AIR SURVEILLANCE NETWORKS

Environmental Protection Agency
Research Triangle Park, North Carolina

June 1973

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APTD-1466

AIR QUALITY DATA FOR NONMETALLIC INORGANIC IONS 1969 AND 1970

from the National Air Surveillance Networks

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Particulate pollutant data gathered during 1969 and 1970 by the cooperating stations of the National Air Surveillance Networks provide the basis for listing the urban and nonurban concentrations of four nonmetallic inorganic ions, ammonium, fluoride, nitrate, and sulfate. Laboratory methodology for each nonmetallic inorganic constituent is described. The data for ammonium, nitrate, and sulfate are presented as cumulative frequency distributions.

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AIR QUALITY DATA
FOR NONMETALLIC INORGANIC IONS
1969 AND 1970

from the

National Air Surveillance Networks

ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Water Programs
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

June 1973

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PREFACE

The Quality Assurance and Environmental Monitoring Laboratory of the National Environmental Research Center-Research Triangle Park, with the assistance and cooperation of state and local agencies, conducts a variety of air sampling activities to obtain information about the air quality in the United States. Data from independent state and local sampling networks that have contributed their results to the National Aerometric Data Bank are available from the Monitoring and Data Analysis Division, Office of Air and Water Programs. The data reported are for nonmetallic inorganic ions of particulate matter.

Updated listings for this notebook will be provided as more current data are available. Any subsequent changes in the introductory material (site descriptions, data table presentations, laboratory methodology, etc.) made by EPA will be forwarded on a routine basis.

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ACKNOWLEDGMENTS

The data reported in this publication could not have been gathered without the generous cooperation of the many state and local air pollution control agencies in the operation of the NASN stations. Gratitude is also due the agencies that have participated in this operation.

ABSTRACT

Particulate pollutant data gathered during 1969 and 1970 by the cooperating stations of the National Air Surveillance Networks provide the basis for listing the urban and nonurban concentrations of four nonmetallic inorganic ions, ammonium, fluoride, nitrate, and sulfate. Laboratory methodology for each nonmetallic inorganic constituent is described.

The data for ammonium, nitrate, and sulfate are presented as cumulative frequency distributions. Because there were no nonurban fluoride measurements above the detectable concentration, the table showing nonurban concentrations of fluoride is abbreviated.

A previous EPA publication, APTD-0978, lists nonmetallic inorganic constituents of suspended particulates for 1968.

AIR QUALITY DATA
FOR NONMETALLIC INORGANIC IONS
1969 AND 1970

SECTION 1. INTRODUCTION

The Environmental Protection Agency (EPA), with the assistance and cooperation of state and local agencies, conducts a variety of air sampling activities to obtain information about the air quality in the United States. EPA generally provides the equipment, supplies, and laboratory analytical services; the cooperating agency provides the sampling site and the manpower. In addition to assisting in the operation of the EPA sampling network, many state and local air pollution control agencies operate their own air pollution control programs. Many such agencies contribute their data to EPA's aerometric data bank, and these data are included in other EPA publications. Data on the concentrations of four nonmetallic inorganic ions, ammonium, fluoride, nitrate, and sulfate, present in suspended particulate matter collected at urban and nonurban sampling sites during 1969 and 1970 are included in this publication.

SAMPLING LOCATIONS

The monitoring sites are divided into two groups, urban sites located within a city or town or its suburban environs and nonurban sites located in rural or remote areas, in order to provide an indication of background levels of nonmetallic inorganic ions. Within each section the data are arranged by year, then by urban and nonurban sites for that specific year.

Each monitoring site is assigned a unique code number. Details of site coding and a list of codes already assigned are found in the SAROAD Station Coding Manual.[1] Briefly, each twelve-digit site identification number is assigned as follows: the first two digits identify the state; the next four digits identify a city of at least 2500 persons, or a county (in some states, the corresponding jurisdiction is a parish, election district, or regional planning district); and the next three digits designate a specific address where the sampling equipment is operated. For example, 010380001 A01 refers to state 01 (Alabama), city 0380 (Birmingham), and site 001 (619 South 19th Street). The final three characters (A01) designate the agency project code. Some of the principal agency project codes are:

A01	EPA, population-oriented surveillance
A03	EPA, background surveillance
F01	State agency, population-oriented surveillance
G01	County agency, population-oriented surveillance
H01	City agency, population-oriented surveillance

A list of sampling site addresses is available in a separate publication.[2]

SAMPLING SCHEDULES

National Air Surveillance Networks (NASN) data originate from a bi-weekly (26 samples per year) modified random sampling schedule. The schedule is modified to ensure equal representation of each day of the week.

DESCRIPTION OF DATA TABLES

The format of data presentation is the cumulative frequency distribution table. For each site, these tables list the year of sampling and the number of valid samples taken. The minimum value, the nine decile values, the arithmetic mean, and the geometric mean are expressed in micrograms per cubic meter. The standard deviation is also given. Standard temperature was 25° Centigrade and standard pressure was 760 mm mercury. The cumulative frequency distribution for nonurban fluoride concentrations is abbreviated because there were few measurements above the minimum detectable concentration. Fluoride analysis, however, is conducted on every nonurban particulate sample.

Table 1-1 lists the minimum detectable concentrations, urban and nonurban, for the four nonmetallic inorganic ions.

Table 1-1. URBAN AND NONURBAN DETECTABLE CONCENTRATIONS FOR NONMETALLIC INORGANIC IONS,[a] $\mu g/m^3$

Ion	Detectable concentration	
	Urban	Nonurban
Ammonium	0.06	0.06
Fluoride	0.05	0.05
Nitrate	0.06	0.06
Sulfate	0.60	0.60

[a] Because nonurban particulate levels are lower, the extracts of the filters used for analysis may be prepared in more concentrated form for increased sensitivity. These limits of detectability are subject to change as analytical methods improve.

REFERENCES

1. Fair, D.H. SAROAD Station Coding Manual. U.S. Environmental Protection Agency, Office of Air Programs, Research Triangle Park, North Carolina. Publication No. APTD-0907. February 1972.
2. Directory of Air Quality Monitoring Sites, 1971. U.S. Environmental Protection Agency, Office of Air Programs. Research Triangle Park, North Carolina. Publication No. APTD-0979. April 1972.

SECTION 2. LABORATORY METHODS

SUSPENDED PARTICULATE MATTER

The mass of particulate matter per volume of air is usually determined by drawing air through a pre-weighed glass filter with a high-volume (Hi-Vol) air sampler and then weighing the soiled filter. A calibrated rotameter is read at the start and finish of the sampling period, and the averaged value is used with a calibration table for that rotameter to obtain the flow rate. The known sampling period (24 hours) and the measured flow rate allow for calculation of the volume of air sampled. The following procedure is used by EPA for all sampling conducted by NASN.

The Hi-Vol samplers, operating at approximately 1.5 cubic meters per minute, collect particulate matter from about 2200 cubic meters of air during the 24-hour sampling period. The filters used are 8- by 10-inch flash-fired glass-fiber filters selected for low and uniform background concentrations of those substances to be measured.

To eliminate any filters having pinholes or other flaws that could affect air flow, the filters are screened for imperfections on a light table and numbered. Prior to weighing, they are equilibrated for a minimum of 24 hours at a temperature of 24° Centigrade and a relative humidity of 50 percent or less. Because any crease in a filter can seriously affect the air flow, filters are weighed with a balance that permits weighing without bending.

The filters are then distributed unfolded to the cooperating local agencies. After sampling, the filters are folded in half with the collected particulate matter inside and returned to the laboratory. The filter with the collected particulates is again equilibrated for at least 24 hours at a temperature of 24° Centigrade and a relative humidity of 50 percent or less, and then weighed to determine the amount of particulate matter that was collected.

NONMETALLIC INORGANIC IONS

Analyses for ammonium, nitrate, and sulfate ions are conducted with Auto-Analyzers* on an aqueous extract of an 8.3 percent aliquot of the particulate sample. The sample aliquot is washed twice in preparing the extract, which has a final volume of 50 milliliters. This solution is used for the three analyses.

Ammonium ion in the filtrate is determined by reaction with sodium hypochlorite solutions to produce a blue complex. The color intensity of this complex is measured spectrophotometrically at 626 nanometers.

Nitrate ion in the filtrate is reduced to nitrite by alkaline hydrazine (pH11). Sulfanilamide is added to form a diazo compound that subsequently combines with N-(1-naphthyl) ethylenediamine. The resulting compound is measured spectrophotometrically at 535 nanometers. This method offers distinct advantages in avoiding interferences from other water-soluble compounds found in atmospheric particulates.

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* Mention of a specific commercial product or company name does not constitute endorsement by the Environmental Protection Agency.

Sulfate ion in the filtrate is determined by the methylthymol blue method, which is appropriate only with the closed system techniques because the methylthymol blue dye is oxidized by atmospheric oxygen. The filtrate is reacted with a reagent consisting of equal parts of methylthymol blue dye and barium chloride kept at a pH of 2.8 to prevent the formation of a chelate complex from the dye and the barium ion. Any sulfate ion in the sample reacts with the barium ion, leaving an excess of methylthymol blue dye that is proportional to the amount of sulfate present. The pH is then raised to 12.4. At this point the barium ion that was not removed by the sulfate forms a chelate complex with the methylthymol blue dye, and the excess dye turns yellow. The intensity of the yellow dye is then determined colorimetrically at 480 nanometers.

Measurement of the fluoride ion concentration in NASN samples of suspended particulate matter became practical with the adaption of a fluoride-selective electrode technique.[1] The analysis is conducted on an aliquot of the same water extract that was prepared for the ammonium, nitrate, and sulfate analyses. A sodium citrate-carbonate buffer solution is added to adjust the ionic strength and the pH to the control interferences from the metal ions. The fluoride-selective electrode generates a potential in proportion to the fluoride activity in the sample; this potential is measured against the potential of a standard reference electrode. The fluoride content is then determined by comparing this potential to that obtained, under the same conditions, from standard solutions of known fluoride content.

REFERENCE

1. Frant, M.C. and J.W. Ross, Jr. Electrode for Sensing Fluoride Ion Activity in Solution. Science, 145: 1533-1544, 1966.

SECTION 3. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: AMMONIUM

Table 3-1. AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN																
011480001 A01	26	0.0	0.0	0.0	0.10	0.20	0.20	0.20	0.40	0.60	0.80	2.40	0.39	0.52	0.19	3.83
HUNTSVILLE																
011860001 A01	26	0.0	0.0	0.20	0.20	0.30	0.40	0.40	0.80	0.90	1.10	5.90	0.64	1.06	0.32	3.87
MOBILE																
011960001 A01	22	0.0	0.0	0.10	0.20	0.20	0.20	0.20	0.20	0.30	0.50	1.00	0.25	0.22	0.16	2.83
MONTGOMERY																
012460001 A01	26	0.0	0.10	0.20	0.20	0.30	0.30	0.40	0.50	0.90	1.20	5.30	0.63	1.02	0.34	2.88
ALASKA																
ANCHORAGE																
020040003 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	2.00	0.18	0.38	0.10	2.55
FAIRBANKS																
020160001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.50	0.15	0.13	0.11	2.49
ARIZONA																
PHOENIX																
030600002 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.60	1.30	2.00	0.42	0.54	0.18	4.09
TUCSON																
030860001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.60	2.90	0.35	0.60	0.16	3.49
ARKANSAS																
LITTLE ROCK																
041440001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.80	0.90	1.50	1.80	0.50	0.54	0.26	3.63
TEXARKANA																
042560001 A01	26	0.0	0.10	0.10	0.10	0.10	0.20	0.40	1.40	1.50	2.00	2.80	0.70	0.82	0.31	3.88
CALIFORNIA																
ANAHEIM																
050230001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.50	3.40	8.10	1.06	2.22	0.22	9.89
BURBANK																
050900001 A01	24	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.50	1.30	2.20	9.20	1.04	1.99	0.38	4.13
FRESNO																
052800001 A01	25	0.0	0.10	0.10	0.10	0.20	0.40	0.40	0.70	0.70	0.80	9.60	0.61	1.89	0.28	3.51
GLENDALE																
052940001 A01	26	0.0	0.10	0.10	0.10	0.30	0.30	0.30	1.00	1.40	2.30	8.80	1.01	1.87	0.35	4.37
LONG BEACH																
054100001 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.80	1.30	1.90	2.60	10.20	1.28	2.18	0.41	5.19
LOS ANGELES																
054180001 A01	24	0.0	0.10	0.20	0.20	0.30	0.40	0.50	0.60	0.80	1.50	2.80	0.60	0.68	0.36	2.91
OAKLAND																
055300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.70	1.70				
ONTARIO																
055380001 A01	25	0.0	0.0	0.10	0.20	0.20	0.30	0.60	1.40	1.50	2.70	6.90	1.05	1.57	0.37	4.96
RIVERSIDE																
056400001 A01	26	0.0	0.0	0.20	0.20	0.40	0.70	1.00	1.40	1.70	3.10	5.80	1.20	1.47	0.52	4.72
SACRAMENTO																
056560001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.40	0.13	0.09	0.12	2.21
SAN BERNARDINO																
056680001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	1.30	1.70	2.30	0.57	0.67	0.24	4.42
SAN DIEGO																
056800001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	1.20	3.10				
SAN FRANCISCO																
056860001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	1.30	3.10				
SAN JOSE																
056980001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	2.00	0.20	0.38	0.11	2.70
SANTA ANA																
057180001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.60	2.00	6.40	0.67	1.36	0.19	4.84
TORRANCE																
058260001 A01	25	0.0	0.0	0.0	0.10	0.10	0.30	0.30	0.70	1.40	5.90	7.40	1.15	2.11	0.27	6.01
COLORADO																
DENVER																
060980001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.40				
CONNECTICUT																
BRIDGEPORT																
070060001 A01	25	0.20	0.30	0.40	0.70	0.70	1.00	1.10	1.40	1.90	2.40	2.80	1.14	0.77	0.88	2.17
HARTFORD																
070420001 A01	25	0.10	0.60	0.80	0.90	1.10	1.20	1.30	1.70	1.90	2.40	3.90	1.40	0.87	1.12	2.18
NEW HAVEN																
070700001 A01	26	0.10	0.20	1.00	1.40	2.00	2.10	2.10	2.70	2.90	4.20	6.00	2.15	1.43	1.94	2.79

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
CONNECTICUT																
WATERBURY																
071240001 A01	26	0.10	0.30	0.70	0.90	1.10	1.10	1.20	1.40	2.20	3.10	4.80	1.44	1.10	1.07	2.36
DELAWARE																
WILMINGTON																
080260001 A01	24	0.40	0.90	1.10	1.40	2.60	2.70	3.00	3.30	4.20	6.70	12.60	3.31	2.92	2.43	2.26
DIST COLUMBIA																
WASHINGTON																
090020001 A01	26	0.10	0.20	0.50	0.80	1.10	1.40	1.90	2.30	2.50	4.00	9.70	1.89	1.92	1.21	2.87
FLORIDA																
JACKSONVILLE																
101960002 A01	24	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.30	1.80	0.23	0.35	0.15	2.35
MIAMI																
102700001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.50				
ST PETERSBURG																
103980002 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	1.50				
TAMPA																
104360002 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	13.10	0.64	2.59	0.12	3.92
GEORGIA																
ATLANTA																
110280001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.50	0.90	1.50	2.80	0.48	0.59	0.22	3.82
COLUMBUS																
111280001 A01	24	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.50	0.90	1.40	4.90	0.59	1.02	0.25	3.88
SAVANNAH																
114900001 A01	25	0.0	0.10	0.20	0.20	0.20	0.20	0.30	1.70	3.10	6.40	7.50	1.56	2.35	0.48	4.95
HAWAII																
HONOLULU																
120120001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.20				
IDAHO																
BOISE CITY																
130220001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.50				
ILLINOIS																
CHICAGO																
141720001 A01	26	0.20	0.20	0.50	0.80	1.20	1.40	1.60	2.00	2.90	3.60	4.80	1.71	1.33	1.20	2.56
EAST ST LOUIS																
142120001 A01	25	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.90	1.80	4.10	0.75	1.30	0.37	2.95
JOLIET																
143760001 A01	23	0.0	0.10	0.10	0.20	0.40	0.50	0.90	1.30	1.90	2.90	4.40	1.07	1.17	0.52	3.09
NORTH CHICAGO																
145620002 A01	26	0.10	0.10	0.20	0.20	0.20	0.50	0.70	1.40	1.70	2.60	6.20	1.05	1.35	0.53	3.42
PEORIA																
146080001 A01	26	0.10	0.10	0.20	0.20	0.40	0.70	1.40	1.70	1.90	2.50	3.60	1.15	0.99	0.67	3.31
ROCKFORD																
146680001 A01	24	0.10	0.10	0.10	0.10	0.30	0.30	0.70	0.90	1.50	1.90	6.10	0.95	1.43	0.43	3.62
SPRINGFIELD																
147280001 A01	25	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.80	0.90	1.70	12.50	1.21	2.46	0.48	3.23
INDIANA																
EAST CHICAGO																
151140001 A01	25	0.10	0.10	0.40	0.50	0.70	0.90	1.00	1.30	1.40	2.80	4.70	1.19	1.11	0.77	2.84
EVANSVILLE																
151300001 A01	26	0.0	0.10	0.10	0.20	0.20	0.40	0.50	0.60	1.00	2.60	6.80	0.89	1.45	0.36	4.06
FORT WAYNE																
151380001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.90	2.10	2.60	0.64	0.75	0.33	3.54
GARY																
151520001 A01	23	0.10	0.10	0.20	0.20	0.20	0.50	0.50	0.90	1.60	2.50	3.70	0.85	1.00	0.45	3.23
HAMMOND																
151780001 A01	25	0.10	0.20	0.30	0.40	0.70	1.00	1.00	1.30	1.90	2.80	5.00	1.19	1.15	0.78	2.69
INDIANAPOLIS																
152040001 A01	25	0.10	0.10	0.30	0.40	0.50	0.70	0.90	1.10	2.20	2.70	4.00	1.12	1.08	0.69	2.94
NEW ALBANY																
152980002 A01	23	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.70	0.90	1.20	2.00	0.63	0.45	0.49	2.16
SOUTH BEND																
155880002 A01	25	0.10	0.20	0.20	0.30	0.40	0.50	0.60	0.90	2.20	2.60	4.80	1.01	1.15	0.59	2.81
TERRE HAUTE																
156480001 A01	23	0.0	0.20	0.30	0.40	0.50	1.00	1.20	1.80	2.30	3.00	6.00	1.41	1.45	0.80	3.47
IOWA																
DAVENPORT																
161040001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.90	0.90	2.50	0.32	0.54	0.14	3.55

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
IOWA																
DES MOINES 161180001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30	1.10	3.00	0.39	0.66	0.16	3.72
DUBUQUE 161260001 A01	24	0.0	0.10	0.20	0.50	0.50	0.60	0.90	1.10	1.30	1.40	9.80	1.10	1.91	0.57	3.30
KANSAS																
KANSAS CITY 171000002 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.14	0.10	0.11	2.21
TOPEKA 173560001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	2.00				
WICHITA 173740001 A01	36	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.90				
KENTUCKY																
ASHLAND 180000002 A01	24	0.10	0.20	0.30	0.40	0.50	0.70	1.10	3.10	5.70	8.10	25.30	3.29	5.55	1.15	4.43
COVINGTON 180000001 A01	26	0.10	0.20	0.30	0.40	0.40	0.50	1.10	1.40	1.60	2.30	3.70	1.04	0.95	0.69	2.61
LOUISVILLE 182380001 A01	25	0.10	0.10	0.20	0.20	0.30	0.30	0.50	0.70	1.20	1.80	2.20	0.64	0.63	0.40	2.68
LOUISIANA																
BATON ROUGE 190280001 A01	22	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.60	0.60	1.80	0.32	0.43	0.17	2.96
NEW ORLEANS 192020002 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.70				
SHREVEPORT 192740001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.90	1.00	1.40	1.70	0.49	0.56	0.24	3.78
MARYLAND																
BALTIMORE 210120001 A01	23	0.10	0.20	0.20	0.50	1.00	1.30	1.90	2.10	2.70	3.30	5.40	1.63	1.41	1.00	3.17
MASSACHUSETTS																
BOSTON 220240001 A01	24	0.10	0.10	0.20	0.40	0.70	1.30	1.40	1.80	2.80	3.10	3.60	1.38	1.17	0.81	3.34
FALL RIVER 220560002 A01	25	0.10	0.30	0.30	0.40	0.70	0.90	1.20	2.20	2.30	3.00	4.20	1.38	1.16	0.90	2.77
SPRINGFIELD 222160001 A01	26	0.10	0.20	0.50	0.50	0.70	0.90	1.20	1.30	1.60	1.70	2.20	0.98	0.61	0.74	2.42
WORCHESTER 222040001 A01	26	0.10	0.30	0.50	0.90	1.20	1.40	1.80	2.10	2.20	2.40	5.20	1.52	1.07	1.12	2.50
MICHIGAN																
DEARBORN 231140001 A01	25	0.10	0.10	0.10	0.20	0.20	0.30	0.50	0.60	0.80	2.70	3.70	0.78	1.05	0.39	3.27
DETROIT 231180001 A01	25	0.0	0.10	0.10	0.10	0.10	0.30	0.30	0.50	0.90	1.80	2.30	0.53	0.65	0.26	3.55
FLINT 231560001 A01	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	1.10	1.90				
GRAND RAPIDS 231820001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.70	1.70	3.80				
LANSING 232040001 A01	26	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.80	1.00	1.40	1.60				
SAGINAW 234760001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.50	0.80	1.00	1.80	4.40	0.66	0.95	0.27	4.12
TRENTON 235120001 A01	23	0.0	0.0	0.10	0.10	0.10	0.30	0.50	0.80	1.10	2.30	3.70	0.79	1.10	0.29	4.75
MINNESOTA																
DULUTH 241040001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.90	0.18	0.19	0.12	2.51
MINNEAPOLIS 242260001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.60	1.00	1.80	2.30	0.55	0.68	0.24	4.22
MOORHEAD 242520001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.70	1.00	0.18	0.25	0.10	2.76
ST PAUL 243580001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.60	0.90	1.80	2.40	0.56	0.76	0.21	4.35
MISSOURI																
KANSAS CITY 262580002 A01	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.50	0.70	2.70	0.37	0.61	0.17	3.48
ST LOUIS 264280001 A01	23	0.0	0.10	0.10	0.30	0.50	0.50	0.90	1.00	1.10	1.30	7.00	0.96	1.45	0.46	3.95

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
MONTANA																
HELENA																
270720001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	2.10	4.60				
NEBRASKA																
OMAHA																
281880001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	2.80				
NEVADA																
LAS VEGAS																
290320001 A01	22	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20				
RENO																
290480001 A01	26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.90	0.18	0.13	0.15	1.78
NEW HAMPSHIRE																
CONCORD																
300120001 A01	24	0.10	0.10	0.20	0.30	0.40	0.50	0.90	1.10	1.50	1.60	3.30	0.88	0.89	0.53	2.98
NEW JERSEY																
BURLINGTON CO																
310660002 A01	24	0.10	0.10	0.30	0.40	0.70	0.90	1.20	1.30	1.70	2.40	2.70	1.03	0.77	0.71	2.74
CAMDEN																
310720001 A01	24	0.30	0.88	1.20	1.60	2.10	2.60	3.10	3.80	4.00	4.40	5.60	2.72	1.50	2.22	2.08
ELIZABETH																
311300001 A01	25	0.20	0.30	0.70	0.90	1.20	1.70	1.80	2.00	2.00	2.60	6.10	1.67	1.20	1.30	2.19
GLASSBORO																
311700001 A01	25	0.0	0.20	0.30	0.50	0.60	1.50	1.60	2.60	3.30	5.30	5.90	1.94	1.91	1.00	4.81
HAMILTON																
311940001 A01	23	0.0	0.20	0.30	0.60	0.80	0.90	1.10	1.50	1.90	2.30	4.00	1.18	0.98	0.77	3.10
JERSEY CITY																
312320001 AC1	26	0.20	0.30	1.00	1.00	1.30	1.50	1.80	2.00	2.20	4.10	5.50	1.78	1.24	1.37	2.26
NEWARK																
313480001 A01	25	0.20	0.60	0.90	1.00	1.20	1.50	1.70	2.10	2.40	4.00	5.20	1.76	1.22	1.38	2.14
PATERSON																
314140001 A01	25	0.50	0.70	1.00	1.20	1.30	1.70	1.90	2.10	2.50	3.20	4.20	1.82	0.98	1.58	1.76
PERTH AMBOY																
314220001 A01	24	0.0	0.10	0.40	1.40	1.70	1.80	2.20	2.50	2.80	3.00	4.20	1.80	1.12	1.15	3.69
TRENTON																
315400001 A01	24	0.10	0.10	0.20	0.40	0.60	0.70	1.10	1.30	2.70	4.80	8.80	1.63	2.20	0.73	3.85
NEW MEXICO																
ALBUQUERQUE																
320040001 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.30				
NEW YORK																
ALBANY																
330040001 A01	25	0.0	0.0	0.0	0.10	0.20	0.40	0.60	1.10	1.50	1.80	2.40	0.71	0.72	0.30	4.90
BUFFALO																
330660001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.80	1.10	2.20				
NEW YORK CITY																
334680001 A01	24	0.10	0.10	0.40	1.10	1.40	1.50	2.10	2.40	3.10	5.40	10.20	2.31	2.39	1.28	3.61
NIAGARA FALLS																
334740001 A01	26	0.0	0.10	0.20	0.20	0.30	0.50	0.60	0.80	0.90	1.30	7.80	0.80	1.48	0.37	3.55
ROCHESTER																
335760001 A01	25	0.0	0.0	0.0	0.0	0.10	0.30	0.40	0.90	1.00	1.70	7.80				
SYRACUSE																
336720001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.10	1.60				
UTICA																
336880001 A01	26	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.60	0.80	1.80	2.60	0.54	0.67	0.28	3.46
NORTH CAROLINA																
CHARLOTTE																
340700001 A01	24	0.0	0.10	0.30	0.50	0.50	0.60	0.70	0.80	1.40	1.90	3.50	0.85	0.81	0.59	2.94
DURHAM																
341160001 A01	26	0.0	0.10	0.20	0.20	0.40	0.50	0.70	1.10	1.30	1.60	2.20	0.72	0.60	0.45	3.10
GREENSBORO																
341740001 A01	24	0.0	0.0	0.0	0.10	0.30	0.40	0.50	0.70	0.80	0.90	1.60	0.47	0.43	0.24	4.07
WINSTON-SALEM																
344660002 A01	25	0.10	0.20	0.40	0.60	0.70	0.90	1.30	1.50	1.80	2.40	2.90	1.15	0.83	0.81	2.64
NORTH DAKOTA																
BISMARCK																
350100001 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.30	2.00				
OHIO																
CANTON																
361000001 A01	26	0.0	0.10	0.20	0.30	0.40	0.40	0.60	0.80	1.00	2.40	3.60	0.85	1.00	0.46	3.28

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OHIO																
CINCINNATI 361220001 A01	26	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.80	1.10	2.40	5.20	0.90	1.16	0.36	3.81
CLEVELAND 361300001 A01	25	0.8	0.10	0.20	0.30	0.30	0.40	0.50	1.50	1.90	2.50	5.20	1.06	1.24	0.52	3.76
COLUMBUS 361460001 A01	25	0.6	0.10	0.10	0.20	0.20	0.30	0.40	0.80	1.00	1.80	3.70	0.67	0.85	0.33	3.72
DAYTON 361660001 A01	25	0.0	0.10	0.10	0.20	0.30	0.50	0.50	1.10	1.20	1.60	3.40	0.76	0.81	0.43	3.39
TOLEDO 366400001 A01	26	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.50	0.80	1.60	2.80	0.57	0.71	0.28	3.57
YOUNGSTOWN 367760001 A01	26	0.10	0.20	0.30	0.50	0.60	0.70	0.70	1.10	1.10	1.60	2.50	0.80	0.59	0.63	2.11
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.40				
TULSA 373000001 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									3.30				
OREGON																
MEDFORD 381160001 A01	23	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.30	0.80	0.25	0.18	0.21	1.83
PORTLAND 381460001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	1.60	4.40	0.54	1.08	0.19	3.87
PENNSYLVANIA																
ALLENTOWN 390120001 A01	25	0.10	0.10	0.20	0.20	0.40	0.60	0.80	1.10	1.30	1.70	2.40	0.78	0.66	0.51	2.83
ALTOONA 390140001 A01	23	0.0	0.20	0.20	0.40	0.40	0.60	1.20	1.30	1.90	2.50	3.10	1.03	0.92	0.61	3.32
BETHLEHEM 390780002 A01	25	0.0	0.0	0.10	0.20	0.20	0.30	0.30	0.60	1.40	2.20	3.80	0.78	1.05	0.33	4.25
ERIE 393060002 A01	25	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.70	1.00	2.30	2.80	0.66	0.87	0.27	4.50
HARRISBURG 393880001 A01	24	0.10	0.10	0.10	0.30	0.60	0.80	1.00	1.00	1.60	1.80	2.70	0.88	0.72	0.54	3.16
HAZLETON 393960001 A01	23	0.0	0.10	0.10	0.20	0.30	0.50	0.80	1.20	1.40	2.60	3.30	0.90	0.96	0.43	3.82
JOHNSTOWN 394460001 A01	24	0.0	0.10	0.20	0.30	0.50	0.90	1.10	1.40	1.70	3.30	5.10	1.23	1.37	0.64	3.72
PUERTO RICO																
CAYANO 400560002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.30				
GUAYANILLA 401080002 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.30				
PONCE 401920002 A01	23	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.50				
SAN JUAN 402140001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.20				
RHODE ISLAND																
EAST PROVIDENCE 410120001 A01	25	0.0	0.0	0.10	0.30	0.40	0.60	0.60	1.40	1.40	1.80	1.90	0.75	0.64	0.39	4.27
PROVIDENCE 410300001 A01	26	0.10	0.20	0.90	1.20	1.40	1.80	2.00	2.30	2.70	3.40	3.90	1.73	1.10	1.24	2.72
SOUTH CAROLINA																
COLUMBIA 420760001 A01	22	0.0	0.0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	1.40	2.10	0.55	0.58	0.29	3.71
GREENVILLE 421140001 A01	25	0.0	0.20	0.20	0.20	0.40	0.50	0.90	1.10	1.30	1.80	1.90	0.78	0.64	0.48	3.37
TENNESSEE																
CHATTANOOGA 440380001 A01	26	0.0	0.10	0.30	0.30	0.40	0.50	0.80	1.00	1.20	2.10	3.40	0.89	0.88	0.53	3.11
KNOXVILLE 441740001 A01	24	0.0	0.20	0.20	0.30	0.40	0.50	0.70	0.80	1.10	1.80	2.30	0.70	0.60	0.43	3.14
MEMPHIS 442340001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.40	0.70	2.10	0.34	0.44	0.18	3.09
NASHVILLE 442540001 A01	25	0.0	0.10	0.10	0.20	0.20	0.40	0.60	1.00	1.20	2.00	2.10	0.70	0.69	0.38	3.48

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
DALLAS																
451310002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.20	0.20	0.40	1.30				
FORT WORTH																
451880001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40				
TEXAS																
HOUSTON																
452560001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30				
PASADENA																
454060002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.20	0.50	2.80				
SAN ANTONIO																
454570001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.30				
UTAH																
OGDEN																
460680001 A01	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.30	1.80	0.25	0.35	0.15	2.80
SALT LAKE CITY																
460920001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.30	4.80	0.36	0.92	0.14	3.26
VERMONT																
BURLINGTON																
470140001 A01	23	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.50	0.70	0.90	2.20				
VIRGINIA																
DANVILLE																
480920001 A01	25	0.0	0.10	0.20	0.40	0.40	0.60	0.70	0.90	1.00	2.40	2.70	0.80	0.77	0.49	3.14
HAMPTON																
481440001 A01	26	0.0	0.0	0.10	0.20	0.30	0.40	0.50	1.20	1.40	2.10	3.50	0.76	0.86	0.35	4.40
LYNCHBURG																
481840001 A01	25	0.10	0.20	0.20	0.40	0.50	0.70	0.80	1.10	1.10	1.40	4.10	0.92	0.99	0.62	2.46
NEWPORT NEWS																
482120001 A01	24	0.0	0.10	0.20	0.40	0.50	0.50	0.70	0.90	1.60	2.00	2.10	0.81	0.69	0.50	3.16
NORFOLK																
482140001 A01	26	0.0	0.10	0.10	0.20	0.70	1.10	1.20	1.40	1.60	1.80	2.40	0.97	0.70	0.58	3.60
PORTSMOUTH																
482440001 A01	26	0.10	0.20	0.20	0.60	0.90	0.90	1.00	1.30	1.30	1.90	3.20	0.97	0.70	0.70	2.94
RICHMOND																
482660001 A01	25	0.10	0.20	0.30	0.70	0.80	1.00	1.00	1.50	2.00	2.50	3.80	1.21	0.96	0.85	2.64
ROANOKE																
482700001 A01	26	0.10	0.10	0.20	0.30	0.50	0.60	0.90	1.10	1.80	1.90	3.10	0.88	0.79	0.56	2.80
WASHINGTON																
SEATTLE																
491840001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.60	1.00				
SPOKANE																
492040001 A01	25	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.60	0.70	0.24	0.19	0.19	1.97
TACOMA																
492140001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	1.00				
WEST VIRGINIA																
CHARLESTON																
500280001 A01	25	0.10	0.20	0.40	0.70	1.40	4.60	6.00	8.60	12.00	17.20	23.80	6.22	6.72	2.37	5.59
WISCONSIN																
EAU CLAIRE																
510840002 A01	23	0.0	0.10	0.20	0.20	0.30	0.40	0.90	1.40	1.50	1.90	3.30	0.91	0.91	0.48	3.66
KENOSHA																
511540001 A01	26	0.0	0.10	0.20	0.30	0.40	0.50	0.80	0.90	1.40	1.70	9.00	1.01	1.75	0.45	3.86
MADISON																
511860001 A01	25	0.0	0.10	0.20	0.30	0.30	0.50	0.60	1.00	1.40	3.10	11.00	1.29	2.25	0.52	4.19
MILWAUKEE																
512200001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	2.10			
RACINE																
512880001 A01	24	0.0	0.0	0.0	0.0	0.10	0.20	0.20	0.30	0.70	1.10	1.30	3.00	0.55	0.72	0.22	4.49
SUPERIOR																
513480001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.60	1.60			
WYOMING																
CASPER																
520120001 A01	25	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.30	0.50	0.70			
CHEYENNE																
520140001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.20				

Table 3-2. AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P																
040370001 A03	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.30				
ARKANSAS																
MONTGOMERY CO																
041760001 A03	24	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.20	0.40	0.40	1.40				
CALIFORNIA																
HUMBOLDT CO																
053980001 A03	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	1.90				
COLORADO																
MESA VERDE NAT PAR																
061930002 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.11	0.061	0.09	2.05
FLORIDA																
HARDEE CO																
101660001 A03	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	1.10	0.22	0.23	0.15	2.55
IDAHO																
BUTTE CO																
130540001 A03	24	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.30				
INDIANA																
MONROE CO																
152800001 A03	24	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.70	1.30	2.10	3.40	0.68	0.94	0.27	4.34
PARKE CO																
153260001 A03	23	0.0	0.10	0.20	0.20	0.20	0.40	0.50	0.80	1.50	2.00	3.80	0.79	0.97	0.41	3.45
MAINE																
ACADIA NAT PARK																
200010001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40	1.00	0.18	0.23	0.11	2.83
MARYLAND																
CALVERT CO																
210280001 A03	25	0.0	0.0	0.0	0.20	0.50	0.90	1.00	1.20	1.40	2.80	6.30	1.13	1.41	0.41	6.13
MISSOURI																
SHANNON CO																
264480002 A03	24	0.0	0.0	0.0	0.10	0.20	0.20	0.30	0.40	1.70	2.10	5.20	0.73	1.19	0.24	4.97
MONTANA																
GLACIER NAT PARK																
270970001 A03	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.30				
NEBRASKA																
THOMAS CO																
282480001 A03	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.30	0.60				
NEVADA																
WHITE PINE CO																
290560001 A03	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.60				
NEW HAMPSHIRE																
COOS CO																
300140001 A03	22	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	1.20	0.18	0.29	0.11	2.73
NEW YORK																
JEFFERSON CO																
333340001 A03	25	0.0	0.10	0.10	0.20	0.30	0.70	1.00	1.40	1.60	4.40	5.90	1.33	1.67	0.54	4.69
NORTH CAROLINA																
CAPE HATTERAS NAT																
340940001 A03	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30				
OKLAHOMA																
CHEROKEE CO																
370480001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.50	1.20	2.10				
OREGON																
CURRY CO																
380440001 A03	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.30				
PENNSYLVANIA																
CLARION CO																
391760001 A03	26	0.0	0.0	0.10	0.10	0.20	0.50	0.80	1.00	1.50	2.10	4.90	0.89	1.17	0.33	9.34
RHODE ISLAND																
WASHINGTON CO																
410380002 A03	27	0.0	0.0	0.0	0.10	0.10	0.30	0.40	0.50	0.70	2.90	3.90				
SOUTH CAROLINA																
RICHLAND CO																
421980001 A03	25	0.10	0.20	0.20	0.30	0.40	0.70	0.70	1.00	1.40	2.20	2.90	0.88	0.80	0.57	2.72
SOUTH DAKOTA																
BLACK HILLS NAT FO																
430110001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.09	0.04	0.08	1.84
TENNESSEE																
CUMBERLAND CO																
440680001 A03	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.70	1.00	2.40				

Table 3-2 (continued). AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
TEXAS																
MATAGORDA CO																
453530001 A03	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.20				
VERMONT																
ORANGE CO																
470360001 A03	26	0.0	0.10	0.10	0.10	0.30	0.40	0.40	0.80	1.00	2.00	3.30	0.67	0.79	0.36	3.33
VIRGINIA																
SHENANDOAH NAT PAR																
402890001 A03	26	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.60	0.80	1.20	3.20	0.53	0.67	0.26	3.09
WYTHE CO																
483440001 A03	25	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	0.70	1.10	2.60	0.46	0.59	0.28	2.78
WISCONSIN																
DOOR CO																
510780001 A03	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									2.10				
WYOMING																
YELLOWSTONE NAT PA																
520960001 A03	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.20				

Table 3-3. AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN																
011480001 A01	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.40	0.80	0.22	0.21	0.13	3.01
HUNTSVILLE																
011860001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.40	0.90	0.90	1.90	0.32	0.46	0.14	3.76
MONTGOMERY																
012460001 A01	29	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.80	0.17	0.16	0.12	2.29
ALASKA																
ANCHORAGE																
020040003 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30				
ARIZONA																
MARICOPA CO																
030440001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40				
TUCSON																
030860001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	3.10				
ARKANSAS																
LITTLE ROCK																
041440001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30	0.80	2.20				
WEST MEMPHIS																
042740001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	1.90	6.80				
CALIFORNIA																
ANAHEIM																
050230001 A01	26	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.70	2.50	4.90	0.66	1.25	0.23	3.81
BURBANK																
050980002 A01	25	0.10	0.10	0.10	0.20	0.20	0.40	0.40	0.70	0.80	3.30	10.40	1.10	2.18	0.41	3.64
FRESNO																
052800002 A01	23	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.50	1.90	6.50	0.68	1.48	0.23	3.53
GLENDALE																
052940001 A01	26	0.0	0.10	0.10	0.20	0.30	0.40	0.40	0.50	0.70	1.30	3.10	0.55	0.66	0.33	2.91
LONG BEACH																
054100001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.50	0.60	1.50	2.90	0.53	0.73	0.24	3.87
LOS ANGELES																
054180001 A01	25	0.0	0.10	0.10	0.20	0.30	0.30	0.50	0.60	0.90	1.30	8.90	0.85	1.74	0.36	3.52
OAKLAND																
055300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	1.40				
ONTARIO																
055380001 A01	25	0.10	0.10	0.10	0.30	0.30	0.40	0.60	0.90	1.40	2.00	5.10	1.00	1.29	0.49	3.43
PASADENA																
055760002 A01	23	0.0	0.10	0.10	0.20	0.30	0.40	0.50	0.70	0.90	1.30	2.00	0.56	0.53	0.35	2.97
RIVERSIDE																
056400001 A01	25	0.0	0.10	0.10	0.10	0.20	0.40	0.60	1.90	2.20	3.70	4.80	1.15	1.36	0.45	4.44
SACRAMENTO																
056580001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	1.00	0.14	0.19	0.10	2.21
SAN BERNARDINO																
056680001 A01	23	0.10	0.10	0.20	0.20	0.30	0.40	0.60	1.40	1.80	4.20	11.20	1.60	2.72	0.59	4.85
SAN DIEGO																
056830001 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20				
SAN FRANCISCO																
056860001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.50				
SANTA ANA																
057180001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.90	3.80				
TORRANCE																
058260001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.60	5.20	0.40	1.01	0.15	3.35
COLORADO																
DENVER																
060580001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	1.10				
CONNECTICUT																
BRIDGEPORT																
070060001 A01	26	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.80	0.90	2.30	3.80	0.72	1.04	0.33	3.34
HARTFORD																
070420001 A01	26	0.0	0.10	0.10	0.20	0.30	0.40	0.80	1.90	2.30	3.20	4.20	1.11	1.29	0.49	4.22
NEW HAVEN																
070700001 A01	26	0.10	0.20	0.30	0.50	0.90	1.10	1.40	2.30	2.70	3.30	5.70	1.53	1.37	0.95	3.08
WATERBURY																
071240001 A01	25	0.10	0.20	0.20	0.30	0.60	0.90	1.20	1.50	2.10	3.60	4.40	1.33	1.38	0.76	3.24
DELAWARE																
NEWARK																
080140001 A01	25	0.0	0.10	0.10	0.30	0.40	0.60	0.80	1.70	2.10	3.00	3.60	1.13	1.17	0.57	3.87

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
DELAWARE																
WILMINGTON																
000260003 A01	25	0.0	0.20	0.20	0.40	0.50	0.60	0.90	1.10	1.40	2.40	9.50	1.03	1.15	0.62	3.04
FLORIDA																
JACKSONVILLE																
101960002 A01	25	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.14	0.08	0.12	1.88
MIAMI																
102700002 A01	29	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 90%									0.20				
ST PETERSBURG																
103900002 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30				
TAMPA																
104360002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20				
GEORGIA																
ATLANTA																
110200001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.40	2.40	0.32	0.57	0.16	2.77
COLUMBUS																
111280001 A01	29	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.40	3.00	0.33	0.61	0.17	2.80
SAVANNAH																
114580001 A01	26	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.60	0.90	1.50	0.37	0.37	0.23	2.82
HAWAII																
HONOLULU																
120120001 A01	29	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20				
IDAHO																
BOISE CITY																
130220001 A01	23	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.80	0.21	0.18	0.14	2.71
ILLINOIS																
CHICAGO																
141270001 A01	26	0.0	0.10	0.20	0.40	0.50	0.50	1.00	1.80	1.90	2.80	3.10	1.08	0.98	0.63	3.41
NORTH CHICAGO																
145620002 A01	29	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.80	1.30	3.00	5.10	0.85	1.32	0.24	5.79
PEORIA																
146090001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.40	1.00	3.20	4.90	0.84	1.39	0.26	5.07
ROCK ISLAND																
146780001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.70	4.50				
SPRINGFIELD																
147280001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	1.20	2.40				
INDIANA																
EAST CHICAGO																
151190001 A01	26	0.0	0.0	0.10	0.20	0.30	0.30	0.50	0.70	0.80	1.20	4.70	0.63	0.94	0.31	3.65
EVANSVILLE																
151300001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.70	3.10	0.38	0.68	0.18	3.05
FORT WAYNE																
151380001 A01	24	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.70	3.00	0.48	0.74	0.25	2.93
GARY																
151520001 A01	23	0.0	0.10	0.10	0.20	0.20	0.30	0.30	0.40	0.70	0.90	1.40	0.40	0.34	0.28	2.93
HAMMOND																
151780001 A01	26	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	0.70	1.10	3.40	0.54	0.81	0.27	3.33
INDIANAPOLIS																
152040001 A01	29	0.0	0.0	0.10	0.20	0.20	0.30	0.40	0.60	1.40	3.40	8.20	1.01	1.81	0.31	5.07
NEW ALBANY																
152980002 A01	21	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.70	0.20	0.40	0.90	0.17	0.20	0.11	2.78
SOUTH BEND																
153880002 A01	22	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.60	0.70	3.20	0.41	0.68	0.20	3.42
TERRE HAUTE																
154080001 A01	24	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.70	1.20	2.10	15.00	1.20	2.94	0.40	3.59
IOWA																
CEDAR RAPIDS																
160640001 A01	23	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.50	2.00				
DAVENPORT																
161060001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.90	0.60	6.20				
DES MOINES																
161180001 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 90%									3.70				
KANSAS																
KANSAS CITY																
171800002 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.90	5.70	0.42	1.12	0.13	3.77
TOPEKA																
173560001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.80	2.70	0.28	0.56	0.11	3.35

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
KANSAS																
WICHITA																
173740001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.70	0.17	0.18	0.10	2.75
KENTUCKY																
ASHLAND																
180080002 A01	26	0.0	0.0	0.10	0.30	0.50	0.50	0.60	0.90	1.10	11.20	31.30	2.90	6.82	0.50	7.23
BOWLING GREEN																
180320001 A01	21	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.20	0.40	2.40	0.28	0.51	0.13	3.31
COVINGTON																
180800001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.60	0.90	1.50				
LEXINGTON																
182300001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.80	2.80	0.43	0.70	0.17	4.11
LOUISIANA																
BATON ROUGE																
190280001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	1.00	0.25	0.29	0.15	3.18
NEW ORLEANS																
192020002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50				
SHREVEPORT																
192740001 A01	24	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.80	3.30	0.34	0.68	0.16	3.38
MAINE																
PORTLAND																
200960002 A01	26	0.0	0.10	0.40	0.40	0.50	0.60	1.00	1.30	1.70	3.00	4.30	1.08	1.08	0.64	3.26
MARYLAND																
BALTIMORE																
210120001 A01	25	0.0	0.10	0.20	0.20	0.20	0.30	0.30	1.30	1.60	3.60	14.60	1.49	3.07	0.46	4.44
MASSACHUSETTS																
FALL RIVER																
220560002 A01	24	0.0	0.10	0.10	0.20	0.20	0.30	0.70	0.70	1.40	2.00	3.00	0.73	0.83	0.37	3.60
SPRINGFIELD																
222140002 A01	25	0.0	0.10	0.20	0.20	0.20	0.30	0.70	1.20	1.40	3.50	4.20	1.17	1.44	0.49	4.04
WORCHESTER																
222640001 A01	23	0.10	0.10	0.20	0.20	0.40	0.80	1.20	1.50	1.70	2.00	4.30	1.00	1.01	0.55	3.35
MICHIGAN																
DETROIT																
231180001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	1.30	2.00	0.41	0.56	0.17	4.03
FLINT																
231580001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	1.30				
GRAND RAPIDS																
231820001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.50	0.90	1.90				
LANSING																
232840001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.50	1.40	3.40				
SAGINAW																
234760001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	1.70	3.40				
TRENTON																
235120001 A01	26	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.30	0.50	1.20	1.80				
MINNESOTA																
DULUTH																
241040001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.30	0.60				
MINNEAPOLIS																
242260001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.40	1.40				
MOORHEAD																
242320001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.30				
ST PAUL																
243380001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.30	0.30	0.40	0.50	2.20	0.28	0.42	0.17	2.83
MISSOURI																
KANSAS CITY																
262180002 A01	21	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	4.80				
NEBRASKA																
LINCOLN																
281560002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.40	1.00	2.80				
OMAHA																
281680001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.30	1.30	3.90				
NEW HAMPSHIRE																
CONCORD																
300120001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.30	0.60	1.30	2.90	5.60	0.85	1.41	0.23	5.49
NEW JERSEY																
BURLINGTON CO																
310660002 A01	26	0.0	0.10	0.20	0.30	0.30	0.40	0.50	0.80	1.30	2.60	4.70	0.82	1.07	0.45	3.14

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
NEW JERSEY																
CAMDEN 310720001 A01	26	0.0	0.20	0.40	0.60	1.30	1.90	1.90	2.20	2.30	3.80	5.60	1.63	1.33	0.95	3.94
ELIZABETH 311300002 A01	25	0.0	0.07	0.30	0.40	0.60	0.90	1.50	2.00	2.20	3.10	5.30	1.41	1.34	0.71	4.41
GLASSBORO 311700001 A01	26	0.0	0.10	0.10	0.10	0.30	0.50	0.70	1.00	1.50	2.40	5.00	0.93	1.16	0.43	3.96
JERSEY CITY 312320001 A01	25	0.10	0.20	0.20	0.40	0.60	0.70	1.40	2.40	2.70	3.60	4.80	1.52	1.46	0.84	3.41
NEWARK 313480001 A01	24	0.10	0.10	0.40	0.40	0.50	0.60	0.90	1.00	2.30	3.00	5.40	1.28	1.46	0.71	3.13
PATERSON 314140001 A01	23	0.10	0.10	0.10	0.20	0.40	0.60	0.90	1.40	3.60	4.00	4.80	1.37	1.59	0.68	4.17
PERTH AMBOY 314220001 A01	25	0.0	0.10	0.10	0.20	0.20	0.90	1.10	1.80	2.58	3.50	5.68	1.16	1.22	0.93	4.57
TRENTON 315400001 A01	24	0.10	0.10	0.20	0.20	0.50	0.70	0.90	1.20	2.30	3.30	3.90	1.15	1.19	0.62	3.34
NEW MEXICO																
ALBUQUERQUE 320040001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20				
NEW YORK																
BUFFALO 330660001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.30	0.40	0.60	1.90	3.10				
NEW YORK CITY 334680001 A01	25	0.10	0.30	0.30	0.40	0.60	0.90	1.20	2.40	2.80	4.90	9.10	1.66	1.63	0.98	3.87
NIAGARA FALLS 334740001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	1.10	1.30	2.20	2.80	0.67	0.87	0.23	5.81
ROCHESTER 335760001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.90	1.10	1.30				
SYRACUSE 336620001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40				
UTICA 336880001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	1.30				
YONKERS 337620001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.70	1.20	3.30	3.50	0.74	1.08	0.25	4.83
NORTH CAROLINA																
CHARLOTTE 340700001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	1.30	2.60	0.41	0.63	0.19	3.24
DURHAM 341160001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.90	1.00	1.30	0.32	0.41	0.15	3.70
GREENSBORO 341740001 A01	24	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.70	1.30	3.80	0.50	0.80	0.22	3.67
WINSTON-SALEM 344660002 A01	24	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.50	0.70	0.80	4.10	0.52	0.89	0.25	3.17
NORTH DAKOTA																
BISMARCK 350100001 A01	26	0.0	NO. OF SAMPLES (10) BELOW MIN. DET. EXCEEDS 50%									0.10				
OHIO																
CANTON 361000001 A01	25	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.30	1.40	2.40	3.20	0.83	0.95	0.34	4.68
CINCINNATI 361220001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.90	1.30	0.24	0.28	0.14	3.04
CLEVELAND 361300001 A01	26	0.0	0.10	0.10	0.30	0.40	0.90	0.80	1.00	1.80	1.90	3.70	0.81	0.89	0.43	3.75
COLUMBUS 361460001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	1.00	1.70	0.35	0.40	0.20	3.11
DAYTON 361660001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.80	1.20	0.28	0.31	0.15	3.31
TOLEDO 366400001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.30	0.50	0.60	1.20	1.70	0.38	0.46	0.17	4.11
YOUNGSTOWN 367760001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40	0.60	1.50	3.10	0.51	0.79	0.19	4.17
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.40	4.50				
TULSA 373000001 A01	22	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.90				

Table 3-9 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OREGON																
PORTLAND 381440001 A01	22	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	1.40	2.60				
PENNSYLVANIA																
ALLENTOWN 390120001 A01	26	0.0	0.10	0.10	0.20	0.40	0.70	0.90	1.40	1.90	2.70	5.60	1.16	1.43	0.91	4.40
ALTOONA 390140001 A01	25	0.50	0.70	0.80	1.00	1.20	1.40	1.60	2.10	2.60	3.50	6.70	1.89	1.37	1.54	1.91
BETHLEHEM 390780002 A01	26	0.0	0.0	0.10	0.10	0.40	0.60	0.60	0.90	1.30	2.30	7.70	0.76	0.79	0.37	4.17
ERIE 393060002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.20	4.00				
HARRISBURG 393880001 A01	26	0.0	0.0	0.10	0.10	0.10	0.30	0.50	1.10	1.10	1.60	5.60	0.78	1.22	0.27	5.09
JOHNSTOWN 394460001 A01	23	0.0	0.0	0.10	0.10	0.40	0.50	0.70	0.70	0.80	2.20	4.20	0.78	1.09	0.33	4.41
PHILADELPHIA 397140001 A01	24	0.0	0.10	0.40	0.70	0.80	1.30	1.60	2.90	3.40	4.50	7.40	2.05	2.11	1.01	4.37
PITTSBURGH 397260C01 A01	24	0.0	0.0	0.10	0.30	0.30	0.40	0.60	1.00	1.50	3.10	6.20	1.12	1.65	0.44	4.67
READING 397620001 A01	26	0.10	0.10	0.40	0.50	1.00	1.10	1.50	2.10	2.70	3.20	4.30	1.47	1.19	0.91	3.21
SCRANTON 398040001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.00	1.90	2.00	3.80	0.78	0.96	0.38	3.62
WARMINSTER 399160001 A01	25	0.0	0.10	0.10	0.20	0.30	0.40	0.50	0.80	1.10	1.60	2.10	0.66	0.62	0.39	3.21
WILKES-BARRE 399630001 A01	23	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.50	0.90	2.90	7.50	0.85	1.71	0.23	5.06
YORK 399560001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.40	0.90	1.30	2.60	0.42	0.61	0.20	3.50
PUERTO RICO																
BAYAMON 400380002 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.80				
CATANO 400560002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20				
GUAYANILLA 401080002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30				
PONCE 401920002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20				
SAN JUAN 402140001 A01	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.20				
RHODE ISLAND																
EAST PROVIDENCE 410120001 A01	24	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.50	1.30	2.60	3.90	0.72	1.06	0.30	3.76
PROVIDENCE 410390C01 A01	26	0.10	0.10	0.20	0.20	0.40	0.40	0.50	1.30	1.60	2.90	4.20	1.00	1.13	0.54	3.14
SOUTH CAROLINA																
GREENVILLE 421180001 A01	26	0.10	0.20	0.20	0.20	0.20	0.30	0.40	0.60	1.10	1.50	4.60	0.68	0.93	0.41	2.59
TENNESSEE																
CHATTANOOGA 440380001 A01	26	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.40	0.50	1.10	1.90	0.43	0.46	0.28	2.48
MEMPHIS 442340C01 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.50	1.40	0.22	0.28	0.16	2.18
NASHVILLE 442540001 A01	25	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.40	0.60	0.80	0.80	0.31	0.26	0.21	2.65
TEXAS																
DALLAS 451310C02 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	1.40	0.21	0.29	0.13	2.92
EL PASO 451700002 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.40	0.18	0.10	0.15	1.88
FORT WORTH 451880001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.90	0.13	0.11	0.10	2.26
HOUSTON 452560C01 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.11	0.07	0.09	2.09
PASADENA 454060002 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	2.40	19.70	1.19	3.48	0.19	4.77

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
SAN ANTONIO																
454370001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.10	0.09	0.09	1.93
UTAH																
OGDEN																
468880001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.40	0.14	0.08	0.12	1.85
SALT LAKE CITY																
468920001 A01	25	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.50	0.16	0.12	0.13	2.04
VERMONT																
BURLINGTON																
470140001 A01	23	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	1.20	3.90	0.56	0.95	0.22	3.76
VIRGINIA																
DANVILLE																
480920001 A01	25	0.10	0.20	0.20	0.30	0.30	0.40	0.50	0.60	0.70	1.20	4.00	0.62	0.77	0.43	2.38
HAMPTON																
481440001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.00	1.10	1.40	2.30	0.60	0.61	0.33	3.26
LYNCHBURG																
481840001 A01	26	0.0	0.10	0.20	0.30	0.30	0.30	0.40	0.70	0.90	1.60	3.30	0.64	0.71	0.39	2.95
NEWPORT NEWS																
482120001 A01	26	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	0.70	0.90	1.70	0.41	0.42	0.27	2.47
NORFOLK																
482140001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.60	1.70	2.50	0.45	0.66	0.20	3.58
PORTSMOUTH																
482640001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.60	1.80	0.30	0.38	0.18	2.72
RICHMOND																
482660002 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.50	1.10	1.70	3.20	0.65	0.86	0.31	3.90
ROANOKE																
482780001 A01	25	0.10	0.10	0.10	0.20	0.40	0.40	0.50	0.90	1.40	1.70	5.30	0.96	1.37	0.48	3.25
WASHINGTON																
SEATTLE																
491840001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.50				
SPOKANE																
492040001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.60				
TACOMA																
492140001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.90	0.17	0.19	0.11	2.55
WEST VIRGINIA																
CHARLESTON																
500280001 A01	26	0.10	0.10	0.30	0.40	0.60	0.60	1.00	2.50	6.20	10.50	12.60	2.92	4.05	1.01	4.72
SOUTH CHARLESTON																
501760001 A01	26	0.10	0.10	0.20	0.20	0.40	0.50	0.90	1.40	2.80	4.90	6.00	1.36	1.73	0.62	3.75
WISCONSIN																
EAU CLAIRE																
510840002 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.30	0.40	0.70	0.90	2.80	0.44	0.57	0.25	3.08
KENOSHA																
511540001 A01	24	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.90	1.70	0.29	0.40	0.17	2.41
MADISON																
511860001 A01	27	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	2.10	0.26	0.42	0.13	3.05
MILWAUKEE																
512200001 A01	26	0.0	0.10	0.10	0.10	0.20	0.30	0.30	0.50	0.50	0.70	1.40	0.38	0.35	0.26	2.55
RACINE																
512840001 A01	24	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.70	3.20	0.42	0.66	0.23	2.97
SUPERIOR																
513480001 A01	24	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.60	0.80	0.19	0.23	0.14	3.34
WYOMING																
CASPER																
520120001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30				
CHEYENNE																
520140001 A01	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30				

Table 3-4. AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ARIZONA																
GRAND CANYON NAT P 030970001 A03	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.10	0.061	0.08	2.04
ARKANSAS																
MONTGOMERY CO 041760001 A03	22	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.90	0.17	0.161	0.13	2.12
CALIFORNIA																
HUMBOLDT CO 033300001 A03	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.10				
COLORADO																
MESA VERDE NAT PAR 061530002 A03	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20				
FLORIDA																
HARDEE CO 101690001 A03	26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.90	0.18	0.161	0.14	1.74
IDAHO																
BUTTE CO 130340001 A03	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.10				
INDIANA																
MONROE CO 152600001 A03	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	2.00				
PARKE CO 153260001 A03	25	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.90	1.60	2.60	0.51	0.65	0.26	3.36
MAINE																
ACADIA NAT PARK 200010001 A03	24	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.40	0.70	0.15	0.19	0.11	2.48
MISSOURI																
SHANNON CO 264490002 A03	25	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	1.00	1.50	0.31	0.42	0.19	2.56
NEBRASKA																
THOMAS CO 282480001 A03	22	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.30				
NEVADA																
WHITE PINE CO 290960001 A03	24	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.10				
NEW HAMPSHIRE																
COOS CO 300140001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.30				
NEW YORK																
JEFFERSON CO 333340001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.60	1.40	3.10				
NORTH CAROLINA																
CAPE HATTERAS NAT 340590001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.20				
OKLAHOMA																
CHEROKEE CO 370480001 A03	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	0.60	6.50	0.45	1.31	0.12	3.93
OREGON																
CURRY CO 380440001 A03	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.20				
PENNSYLVANIA																
CLARION CO 391760001 A03	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.50	1.70				
RHODE ISLAND																
WASHINGTON CO 410380002 A03	24	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.60	2.20	0.30	0.481	0.17	2.41
TENNESSEE																
CUMBERLAND CO 440680001 A03	22	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.40				
TEXAS																
MATAGORDA CO 453530001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.80				
TOM GREEN CO 455200001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30				
VERMONT																
ORANGE CO 472360001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40	0.40	0.90	2.40	0.33	0.501	0.15	3.52
VIRGINIA																
SHENANDOAH NAT PAR 482890001 A03	25	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	2.20	4.50	0.62	1.09	0.25	3.27
WYTHE CO 483440001 A03	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.70	1.30	0.26	0.311	0.16	2.59

Table 3-4 (continued). AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
WASHINGTON																
KING CO																
490980002 AD1	24	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.11	0.064	0.10	1.70

SECTION 4. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: FLUORIDE

Table 4-1. FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
ALABAMA																
GADSDEN																
011480001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				
HUNTSVILLE																
011860001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
MONTGOMERY																
012460001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.07				
ALASKA																
ANCHORAGE																
020040003 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
FAIRBANKS																
020160001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.11				
ARIZONA																
PHOENIX																
030600002 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.13				
TUCSON																
030860001 A01	26	0.0	0.04	0.07	0.09	0.11	0.11	0.13	0.13	0.20	0.23	0.41	0.13	0.09	0.11	1.90
ARKANSAS																
LITTLE ROCK																
041440001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.19				
TEXARKANA																
042560001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.08				
CALIFORNIA																
ANAHEIM																
050230001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
BURBANK																
050900001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.19				
FRESNO																
052800001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
GLENDALE																
052940001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.13				
LONG BEACH																
054100001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.16				
LOS ANGELES																
054180001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
OAKLAND																
055300001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
ONTARIO																
055380001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.09				
RIVERSIDE																
056400001 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.18				
SACRAMENTO																
056560001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
SAN BERNARDINO																
056680001 A01	26	0.0	0.0	0.0	0.0	0.07	0.08	0.12	0.13	0.15	0.20	0.31				
SAN DIEGO																
056800001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.13				
SAN FRANCISCO																
056860001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.14				
SAN JOSE																
056980001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.11				
SANTA ANA																
057160001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.02				
TORRANCE																
058260001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
COLORADO																
DENVER																
060580001 A01	26	0.07	0.12	0.21	0.21	0.29	0.31	0.34	0.38	0.46	0.49	1.72	0.36	0.31	0.29	1.88
CONNECTICUT																
BRIDGEPORT																
070060001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.37				
HARTFORD																
070420001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.09				
NEW HAVEN																
070700001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.16				
WATERBURY																
071240001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.08				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
DELAWARE																
WILMINGTON																
080260001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.19				
DIST COLUMBIA																
WASHINGTON																
090020001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.15				
FLORIDA																
JACKSONVILLE																
101960002 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
MIAMI																
102700001 A01	26	0.0	0.0	0.0	0.09	0.11	0.13	0.19	0.19	0.20	0.24	0.29	0.13	0.08	0.10	2.33
ST PETERSBURG																
103980002 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
TAMPA																
104360002 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.21				
GEORGIA																
ATLANTA																
110200001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.20				
COLUMBUS																
111250001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.12				
SAVANNAH																
114500001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.33	0.41	2.67	2.72				
HAWAII																
HONOLULU																
120120001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.19				
IDAHO																
BOISE CITY																
130220001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.12				
ILLINOIS																
CHICAGO																
141220001 A01	26	0.0	0.0	0.0	0.0	0.05	0.07	0.08	0.11	0.15	0.27	0.68				
EAST ST LOUIS																
142120001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.16				
JOLIET																
143760001 A01	23	0.0	NO. OF SAMPLES (12) BELOW MIN. DET. EXCEEDS 50%									0.25				
NORTH CHICAGO																
145620002 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.06				
PEORIA																
146080001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.78				
ROCKFORD																
146680001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
SPRINGFIELD																
147280001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
INDIANA																
EAST CHICAGO																
151180001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.09	0.12	0.37	0.56				
EVANSVILLE																
151360001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.12				
FORT WAYNE																
151380001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.10				
GARY																
151520001 A01	23	0.0	0.0	0.0	0.0	0.0	0.06	0.08	0.09	0.23	0.38	0.53				
HAMMOND																
151780001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.08	0.10	0.13	0.36	0.41				
INDIANAPOLIS																
152040001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.11				
NEW ALBANY																
152980002 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.28				
SOUTH BEND																
153480002 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
TERRE HAUTE																
154080001 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.04				
IOWA																
DAVENPORT																
161040001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.36				
DES MOINES																
161180001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.14				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
IOWA																
DUBUQUE																
161260001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.84				
KANSAS																
KANSAS CITY																
171800002 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.21				
TOPEKA																
173940001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.07				
WICHITA																
173740001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
KENTUCKY																
ASHLAND																
180880002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.15	0.31	0.47	0.85				
COVINGTON																
180860001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.14				
LOUISVILLE																
182340001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
LOUISIANA																
BATON ROUGE																
190280001 A01	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEW ORLEANS																
192820002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.27				
SHREVEPORT																
192740001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.10				
MARYLAND																
BALTIMORE																
210120001 A01	23	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.08	0.14	0.28	0.90				
MASSACHUSETTS																
BOSTON																
220240001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.06				
FALL RIVER																
220580002 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.15				
SPRINGFIELD																
222160001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.17				
WORCHESTER																
222640001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
MICHIGAN																
DEARBORN																
231140001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.55				
DETROIT																
231180001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.09	0.10	0.19	0.53				
FLINT																
231560001 A01	23	0.0	0.0	0.0	0.0	0.05	0.07	0.11	0.11	0.14	0.35	0.64				
GRAND RAPIDS																
231820001 A01	26	0.0	0.0	0.05	0.09	0.13	0.18	0.21	0.23	0.24	0.36	0.81	0.20	0.18	0.14	2.63
LANSING																
232040001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.08				
SAGINAW																
234760001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.20				
TRENTON																
235120001 A01	23	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.20				
MINNESOTA																
DULUTH																
241040001 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.11				
MINNEAPOLIS																
242240001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
MOORHEAD																
242520001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.10				
ST PAUL																
243300001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.08				
MISSOURI																
KANSAS CITY																
262580002 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.19				
ST LOUIS																
264280001 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.17				
MONTANA																
HELENA																
270720001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		ARITHMETIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
NEBRASKA																
OMAHA																
281880001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.05				
NEVADA																
LAS VEGAS																
298320001 A01	22	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.23				
RENO																
298480001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 90%									0.08				
NEW HAMPSHIRE																
CONCORD																
300120001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEW JERSEY																
BURLINGTON CO																
310660002 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.11				
CAMDEN																
310720001 A01	24	0.0	0.0	0.0	0.04	0.07	0.08	0.13	0.18	0.26	0.29	0.59				
ELIZABETH																
311300001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
GLASSBORO																
311700001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
HAMILTON																
311940001 A01	23	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.09				
JERSEY CITY																
312320001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEWARK																
313480001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.07				
PATERSON																
314140001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
PERTH AMBOY																
314220001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.05				
TRENTON																
315400001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.05				
NEW MEXICO																
ALBUQUERQUE																
320040001 A01	26	0.0	0.0	0.0	0.05	0.06	0.07	0.08	0.08	0.10	0.13	0.16	0.07	0.04	0.06	1.79
NEW YORK																
ALBANY																
330040001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.06				
BUFFALO																
330660001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.20				
NEW YORK CITY																
334680001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.08				
NIAGARA FALLS																
334740001 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.43				
ROCHESTER																
335760001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.25				
SYRACUSE																
336620001 A01	25	0.0	0.0	0.05	0.06	0.08	0.11	0.15	0.18	0.26	0.40	0.56	0.16	0.14	0.11	2.94
UTICA																
336880001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.14				
NORTH CAROLINA																
CHARLOTTE																
340700001 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.27				
DURHAM																
341160001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.17				
GREENSBORO																
341740001 A01	24	0.0	0.0	0.0	0.0	0.06	0.11	0.12	0.16	0.30	0.40	0.45				
WINSTON-SALEM																
344440002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.43				
NORTH DAKOTA																
BISMARCK																
350100001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.47				
OHIO																
CANTON																
361000001 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.74				
CINCINNATI																
361220001 A01	26	0.0	0.0	0.0	0.0	0.05	0.09	0.12	0.14	0.19	0.25	0.79				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OHIO																
CLEVELAND																
361380001 A01	25	0.0	0.0	0.0	0.0	0.07	0.12	0.14	0.22	0.27	0.35	0.54				
COLUMBUS																
361460001 A01	25	0.0	0.0	0.0	0.0	0.06	0.10	0.15	0.17	0.22	0.25	0.47				
DAYTON																
361660001 A01	25	0.0	0.0	0.05	0.12	0.14	0.15	0.17	0.19	0.22	0.31	0.41	0.16	0.10	0.13	2.32
TOLEDO																
364600001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.45				
YOUNGSTOWN																
367760001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.17	0.26	0.35	0.98				
OKLAHOMA																
OKLAHOMA CITY																
372200001 A01	24	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.13				
TULSA																
373000001 A01	26	0.0	0.06	0.07	0.12	0.13	0.14	0.18	0.25	0.29	0.32	0.34	0.18	0.10	0.15	1.92
OREGON																
MEDFORD																
381140001 A01	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.09				
PORTLAND																
381460001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.14	0.20	0.24	0.61	0.89				
PENNSYLVANIA																
ALLENTOWN																
390120001 A01	25	0.05	0.06	0.12	0.15	0.19	0.21	0.21	0.28	0.29	0.34	0.41	0.21	0.10	0.18	1.84
ALTOONA																
390140001 A01	23	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.19				
BETHLEHEM																
390780002 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.32				
ERIE																
393060002 A01	25	0.0	0.0	0.0	0.06	0.07	0.15	0.17	0.22	0.25	0.33	0.35	0.15	0.11	0.10	2.65
HARRISBURG																
393880001 A01	24	0.0	0.0	0.0	0.0	0.08	0.10	0.11	0.14	0.19	0.22	0.33				
HAZLETON																
393960001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.32				
JOHNSTOWN																
394460001 A01	24	0.0	0.0	0.0	0.0	0.0	0.07	0.28	0.30	0.36	0.40	0.52				
PUERTO RICO																
CATANO																
480960002 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
GUAYANILLA																
481080002 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.09				
PONCE																
481920002 A01	23	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.07				
SAN JUAN																
482140001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
RHODE ISLAND																
EAST PROVIDENCE																
410120001 A01	25	0.0	0.0	0.0	0.0	0.12	0.16	0.16	0.18	0.19	0.25	0.31				
PROVIDENCE																
410300001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.11				
SOUTH CAROLINA																
COLUMBIA																
420760001 A01	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.0				
GREENVILLE																
421180001 A01	25	0.0	0.10	0.13	0.16	0.17	0.19	0.19	0.22	0.23	0.25	0.30	0.18	0.06	0.16	1.49
TENNESSEE																
CHATTANOOGA																
440360001 A01	26	0.14	0.15	0.19	0.20	0.23	0.24	0.28	0.32	0.39	0.58	0.78	0.31	0.18	0.27	1.64
KNOXVILLE																
441740001 A01	24	0.0	0.0	0.08	0.09	0.14	0.24	0.36	0.43	0.47	0.73	2.35	0.37	0.49	0.20	3.30
MEMPHIS																
442340001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NASHVILLE																
442540001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.21	0.31	0.57	0.89				
TEXAS																
DALLAS																
451310002 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAM.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
FORT WORTH																
481860001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.30				
HOUSTON																
482960001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.38				
PASADENA																
484860002 A01	24	0.0	0.0	0.0	0.0	0.05	0.06	0.11	0.11	0.15	0.17	0.49				
SAN ANTONIO																
485870001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.10	0.15	0.40				
UTAH																
OGDEN																
486860001 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.19				
SALT LAKE CITY																
486920001 A01	26	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.09	0.12	0.15	0.26				
VERMONT																
BURLINGTON																
470140001 A01	23	0.0	0.0	0.0	0.05	0.09	0.10	0.11	0.12	0.14	0.17	0.25				
VIRGINIA																
DANVILLE																
480920001 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.37				
HAMPTON																
481440001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.07				
LYNCHBURG																
481840001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.13				
NEWPORT NEWS																
482120001 A01	24	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.09	0.11	0.21				
NORFOLK																
482140001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.31				
PORTSMOUTH																
482440001 A01	26	0.0	0.0	0.0	0.0	0.0	0.12	0.14	0.24	0.25	0.35	0.67				
RICHMOND																
482660001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.23				
ROANOKE																
482700001 A01	26	0.0	0.06	0.07	0.12	0.14	0.17	0.19	0.20	0.21	0.25	0.44	0.17	0.10	0.14	2.05
WASHINGTON																
SEATTLE																
491040001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.12				
SPOKANE																
492040001 A01	25	0.0	0.0	0.0	0.0	0.0	0.09	0.11	0.21	0.70	1.04	2.13				
TACOMA																
492140001 A01	25	0.0	0.0	0.0	0.05	0.06	0.08	0.09	0.11	0.12	0.22	0.45	0.11	0.10	0.08	2.26
WEST VIRGINIA																
CHARLESTON																
500280001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.11				
WISCONSIN																
EAU CLAIRE																
510840002 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
KENOSHA																
511540001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
MADISON																
511840001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.07				
MILWAUKEE																
512200001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
RACINE																
512880001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.11				
SUPERIOR																
513480001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.57				
WYOMING																
CASPER																
520120001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.06				
CHEYENNE																
520140001 A01	25	0.0	0.07	0.08	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.17	0.11	0.03	0.11	1.48

Table 4-2. FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P																
030370001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.72				
ARKANSAS																
MONTGOMERY CO																
041760001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.22				
CALIFORNIA																
HUMBOLDT CO																
059300001 A03	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.29				
COLORADO																
MESA VERDE NAT PAR																
061930002 A03	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.13				
FLORIDA																
HARDEE CO																
101480001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
IDAHO																
BUTTE CO																
130340001 A03	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.07				
INDIANA																
MONROE CO																
152800001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
PARKE CO																
153260001 A03	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
MAINE																
ACADIA NAT PARK																
200010001 A03	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.16				
MARYLAND																
CALVERT CO																
210280001 A03	29	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.07				
MISSOURI																
SHANNON CO																
264480002 A03	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.08				
MONTANA																
GLACIER NAT PARK																
270570001 A03	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.14				
NEBRASKA																
THOMAS CO																
282480001 A03	24	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.09	0.10	0.30	0.35				
NEVADA																
WHITE PINE CO																
290560001 A03	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.05				
NEW HAMPSHIRE																
COOS CO																
330140001 A03	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEW YORK																
JEFFERSON CO																
333340001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
NORTH CAROLINA																
CAPE HATTERAS NAT																
340590001 A03	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
OKLAHOMA																
CHEROKEE CO																
370480001 A03	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.10				
OREGON																
CURRY CO																
380440001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
PENNSYLVANIA																
CLARION CO																
391760001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
RHODE ISLAND																
WASHINGTON CO																
410390002 A03	27	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.17				
SOUTH CAROLINA																
RICHLAND CO																
421990001 A03	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.19				
SOUTH DAKOTA																
BLACK HILLS NAT FO																
430110001 A03	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.08				
TENNESSEE																
CUMBERLAND CO																
440680001 A03	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.09				

- Table 4-2 (continued). FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
MATAGORDA CO																
480630001 A09	26	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.19	0.24	0.31	0.40	0.19	0.09	0.17	1.46
VERMONT																
ORANGE CO																
470860001 A09	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.10				
VIRGINIA																
SHENANDOAH NAT PAR																
462090001 A09	26	0.0	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.17	0.18	0.10	0.04	0.09	1.69
WYTHE CO																
483440001 A09	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
WISCONSIN																
DOOR CO																
310780001 A09	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
WYOMING																
YELLOWSTONE NAT PA																
528040001 A09	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.19				

Table 4-3. FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN																
011480001 A01	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.16				
HUNTSVILLE																
011840001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
MONTGOMERY																
012460001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.11				
ALASKA																
ANCHORAGE																
020040003 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.07				
ARIZONA																
MARICOPA CO																
030440001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.21				
TUCSON																
030860001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.06				
ARKANSAS																
LITTLE ROCK																
041440001 A01	24	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.09	0.11	0.12	0.35				
WEST MEMPHIS																
042740001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.07				
CALIFORNIA																
ANAHEIM																
050230001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.11				
BURBANK																
050900002 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
FRESNO																
052800002 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.09				
GLENDALE																
052940001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
LONG BEACH																
054100001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
LOS ANGELES																
054180001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
OAKLAND																
055300001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.12				
ONTARIO																
055360001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.14				
PASADENA																
055760002 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.05				
RIVERSIDE																
056400001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.10				
SACRAMENTO																
056540001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.12				
SAN BERNARDINO																
056680001 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.13				
SAN DIEGO																
056800001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
SAN FRANCISCO																
056860001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.07				
SANTA ANA																
057180001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.10				
TORRANCE																
058260001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.04				
COLORADO																
DENVER																
060580001 A01	26	0.0	0.0	0.0	0.05	0.08	0.12	0.12	0.14	0.15	0.20	0.28	0.11	0.07	0.08	2.20
CONNECTICUT																
BRIDGEPORT																
070060001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.08				
HARTFORD																
070420001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
NEW HAVEN																
070700001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.04				
WATERBURY																
071240001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.08				
DELAWARE																
NEWARK																
080140001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
DELAWARE																
WILMINGTON																
080360003 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.29				
FLORIDA																
JACKSONVILLE																
101960002 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.07				
MIAMI																
102700002 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
ST PETERSBURG																
103960002 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.14				
TAMPA																
104360002 A01	26	0.0	0.0	0.06	0.06	0.08	0.08	0.13	0.17	0.20	0.29	0.45	0.13	0.10	0.10	2.19
GEORGIA																
ATLANTA																
110200001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.06	0.08	0.09				
COLUMBUS																
111280001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
SAVANNAH																
114500001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.48				
HAWAII																
HONOLULU																
120120001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.08				
IDAHO																
BOISE CITY																
130220001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.11				
ILLINOIS																
CHICAGO																
141220001 A01	26	0.0	0.0	0.0	0.05	0.05	0.07	0.08	0.11	0.11	0.18	0.43				
NORTH CHICAGO																
145620002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.26				
PEORIA																
146080001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%									0.34				
ROCK ISLAND																
146700001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.11				
SPRINGFIELD																
147280001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
INDIANA																
EAST CHICAGO																
151180001 A01	26	0.0	0.06	0.08	0.08	0.09	0.11	0.14	0.24	0.29	0.46	1.44	0.22	0.29	0.14	2.43
EVANSVILLE																
151300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.08	0.09	0.13				
FORT WAYNE																
151380001 A01	24	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.12				
GARY																
151520001 A01	23	0.0	0.0	0.0	0.05	0.07	0.08	0.08	0.09	0.11	0.13	0.20	0.08	0.05	0.07	1.90
HAMMOND																
151780001 A01	26	0.0	0.0	0.05	0.05	0.06	0.07	0.07	0.09	0.11	0.15	0.22	0.08	0.05	0.07	1.88
INDIANAPOLIS																
152040001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.11				
NEW ALBANY																
152980002 A01	21	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.07				
SOUTH BEND																
153880002 A01	22	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.12				
TERRE HAUTE																
154080001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
IOWA																
CEDAR RAPIDS																
160640001 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.17				
DAVENPORT																
161060001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.14				
DES MOINES																
161160001 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.08				
KANSAS																
KANSAS CITY																
171800002 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.14				
TOPEKA																
173540001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.12				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
KANSAS																
WICHITA																
173740001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.13				
KENTUCKY																
ASHLAND																
180660002 A01	26	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.11	0.14	0.21	0.61				
BOWLING GREEN																
180920001 A01	21	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.09				
COVINGTON																
180880001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				
LEXINGTON																
182300001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				
LOUISIANA																
BATON ROUGE																
190280001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.06				
NEW ORLEANS																
192020002 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.29				
SHREVEPORT																
192740001 A01	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.14				
MAINE																
PORTLAND																
200460002 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
MARYLAND																
BALTIMORE																
210120001 A01	25	0.0	0.05	0.05	0.06	0.08	0.12	0.13	0.14	0.17	0.19	0.21	0.11	0.06	0.10	1.87
MASSACHUSETTS																
FALL RIVER																
220580002 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.11				
SPRINGFIELD																
222160002 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.10				
WORCHESTER																
222640001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
MICHIGAN																
DETROIT																
231160001 A01	26	0.0	0.0	0.0	0.0	0.06	0.06	0.07	0.09	0.11	0.17	0.43				
FLINT																
231580001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.06				
GRAND RAPIDS																
231820001 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.20				
LANSING																
232640001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.17				
SAGINAW																
234760001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.19				
TRENTON																
235120001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.09				
MINNESOTA																
DULUTH																
241040001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.10				
MINNEAPOLIS																
242240001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.10				
MOORHEAD																
242320001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				
ST PAUL																
243300001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
MISSOURI																
KANSAS CITY																
262380002 A01	21	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.22				
NEBRASKA																
LINCOLN																
281560002 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.06				
OMAHA																
281880001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.10				
NEW HAMPSHIRE																
CONCORD																
300120001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEW JERSEY																
BURLINGTON CO																
310660002 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.10				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
NEW JERSEY																
CAMDEN 310720001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.19				
ELIZABETH 311300002 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.10				
GLASSBORO 311700001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.40				
JERSEY CITY 312320001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.00				
NEWARK 315480001 A01	24	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.07				
PATERSON 314140001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
PERTH AMBOY 314220001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
TRENTON 315400001 A01	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.22				
NEW MEXICO																
ALBUQUERQUE 320040001 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.07				
NEW YORK																
BUFFALO 330660001 A01	24	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.10				
NEW YORK CITY 334680001 A01	25	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.13				
NIAGARA FALLS 334740001 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.11	0.12	0.23	0.54				
ROCHESTER 335760001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.14				
SYRACUSE 336620001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.24				
UTICA 336880001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.12				
YONKERS 337620001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NORTH CAROLINA																
CHARLOTTE 340700001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.12				
DURHAM 341160001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
GREENSBORO 341740001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.07				
WINSTON-SALEM 344460002 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
NORTH DAKOTA																
BISMARCK 350100001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.09				
OHIO																
CANTON 361000001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.10	0.13	0.22				
CINCINNATI 361220001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.08	0.16				
CLEVELAND 361300001 A01	26	0.0	0.0	0.06	0.06	0.08	0.08	0.10	0.11	0.13	0.20	0.50	0.11	0.10	0.09	1.99
COLUMBUS 361460001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.07	0.08	0.09	0.09				
DAYTON 361660001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.39				
TOLEDO 366600001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.10				
YOUNGSTOWN 367760001 A01	25	0.0	0.0	0.0	0.0	0.06	0.07	0.08	0.14	0.15	0.20	0.42				
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				
TULSA 373000001 A01	22	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.07				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
OREGON																
PORTLAND 381460001 A01	22	0.0	0.0	0.0	0.06	0.12	0.16	0.39	0.55	0.59	0.63	2.13	0.37	0.48	0.17	4.03
PENNSYLVANIA																
ALLENTOWN 390120001 A01	26	0.0	0.0	0.05	0.05	0.06	0.08	0.08	0.10	0.11	0.12	0.27	0.08	0.05	0.07	1.89
ALTOONA 390140001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.15				
BETHLEHEM 390700002 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.12	0.16				
ERIE 395060002 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.14				
HARRISBURG 393880001 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.05	0.07	0.09	0.11	0.35				
JOHNSTOWN 394460001 A01	23	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.13	0.13	0.29				
PHILADELPHIA 397140001 A01	24	0.0	0.0	0.0	0.0	0.06	0.08	0.09	0.10	0.11	0.16	0.21				
PITTSBURGH 397260001 A01	24	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.17	0.21	0.25	0.46	0.16	0.09	0.14	1.70
READING 397620001 A01	26	0.05	0.05	0.06	0.07	0.07	0.12	0.13	0.16	0.18	0.20	1.97	0.16	0.29	0.12	2.20
SCRANTON 398040001 A01	25	0.0	0.0	0.05	0.06	0.07	0.10	0.12	0.13	0.16	0.21	0.39	0.11	0.08	0.09	2.05
WARMINSTER 399160001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.07				
WILKES-BARRE 399430001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.13				
YORK 399560001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.12				
PUERTO RICO																
BAYAMON 400380002 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.00				
CATANO 400540002 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.25				
GUAYANILLA 401080002 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.07				
PONCE 401420002 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
SAN JUAN 402140001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.08				
RHODE ISLAND																
EAST PROVIDENCE 410120001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.05				
PROVIDENCE 410300001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.06				
SOUTH CAROLINA																
GREENVILLE 421180001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.07				
TENNESSEE																
CHATTANOOGA 440580001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.09	0.14	0.15	0.18	0.60				
MEMPHIS 442340001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.40				
NASHVILLE 442540001 A01	25	0.0	0.0	0.0	0.05	0.05	0.08	0.13	0.17	0.18	0.25	0.34	0.11	0.09	0.08	2.41
TEXAS																
DALLAS 481310002 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%									0.23				
EL PASO 481700002 A01	26	0.0	0.0	0.08	0.08	0.10	0.11	0.19	0.22	0.25	0.43	0.65	0.18	0.16	0.12	2.45
FORT WORTH 481840001 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.21				
HOUSTON 482560001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.13				
PASADENA 484040002 A01	26	0.0	0.0	0.0	0.05	0.08	0.09	0.12	0.17	0.27	0.41	2.14	0.29	0.52	0.11	3.64

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
SAN ANTONIO																
484570001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.08				
UTAH																
OGDEN																
486080001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%									0.07				
SALT LAKE CITY																
488920001 A01	25	0.0	0.0	0.0	0.05	0.05	0.06	0.06	0.07	0.09	0.13	0.14				
VERMONT																
BURLINGTON																
479140001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%									0.0				
VIRGINIA																
DANVILLE																
480920001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
HAMPTON																
481440001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
LYNCHBURG																
481840001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.31				
NEWPORT NEWS																
482120001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NORFOLK																
482140001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.29				
PORTSMOUTH																
482440C01 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%									0.21				
RICHMOND																
482640002 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.16				
ROANOKE																
482700001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.11				
WASHINGTON																
SEATTLE																
491840001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.09				
SPOKANE																
492040001 A01	26	0.0	0.05	0.08	0.10	0.13	0.16	0.24	0.40	0.54	1.37	2.37	0.42	0.62	0.20	3.26
TACOMA																
492140001 A01	26	0.0	0.0	0.05	0.06	0.07	0.07	0.09	0.16	0.18	0.59	1.02	0.19	0.27	0.10	2.83
WEST VIRGINIA																
CHARLESTON																
500260001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.07	0.10	0.12	0.17	0.24				
SOUTH CHARLESTON																
501760001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									0.31				
WISCONSIN																
EAU CLAIRE																
510840002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.11	0.12	0.13	0.13				
KENOSHA																
511940001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.11	0.11	0.13	0.15				
MADISON																
511060001 A01	27	0.0	0.0	0.0	0.0	0.0	0.07	0.09	0.10	0.10	0.11	0.18				
MILWAUKEE																
512200001 A01	26	0.0	0.0	0.0	0.0	0.05	0.06	0.10	0.12	0.12	0.14	0.18				
RACINE																
512880001 A01	24	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.11	0.12	0.12	0.15				
SUPERIOR																
513480001 A01	24	0.0	0.0	0.0	0.05	0.06	0.06	0.10	0.14	0.16	0.16	0.18				
WYOMING																
CASPER																
520120001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.09	0.09	0.10	0.11				
CHEYENNE																
520140001 A01	23	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.08	0.09	0.11	0.15				

Table 4-4. FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P																
030070001 A03	25	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.09	0.12				
ARKANSAS																
MONTGOMERY CO																
041760001 A03	22	0.0	NO. OF SAMPLES (12) BELOW MIN. DET. EXCEEDS 50%									0.10				
CALIFORNIA																
HUMBOLDT CO																
053360001 A03	25	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.08	0.08	0.09	0.10				
COLORADO																
MESA VERDE NAT PAR																
061930002 A03	25	0.0	0.0	0.0	0.0	0.0	0.08	0.08	0.09	0.09	0.09	0.10				
FLORIDA																
HARDEE CO																
101680001 A03	26	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.09	0.10	0.12	0.13				
IDAHO																
BUTTE CO																
130340001 A03	26	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.10	0.11	0.13				
INDIANA																
MONROE CO																
192800001 A03	24	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.08	0.09	0.10	0.10				
PARKE CO																
193260001 A03	25	0.0	0.0	0.0	0.0	0.0	0.06	0.09	0.09	0.09	0.11	0.12				
MAINE																
ACADIA NAT PARK																
200010001 A03	26	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.10	0.11	0.12				
MISSOURI																
SHANNON CO																
264480002 A03	25	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.07	0.07	0.08	0.11				
NEBRASKA																
THOMAS CO																
282480001 A03	22	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.07	0.08	0.08	0.09				
NEVADA																
WHITE PINE CO																
290560001 A03	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%									0.10				
NEW HAMPSHIRE																
COOS CO																
300140001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
NEW YORK																
JEFFERSON CO																
333340001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
NORTH CAROLINA																
CAPE HATTERAS NAT																
340590001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
OKLAHOMA																
CHEROKEE CO																
370460001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
OREGON																
CURRY CO																
380440001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
PENNSYLVANIA																
CLARION CO																
391760001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
RHODE ISLAND																
WASHINGTON CO																
410380002 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.0				
TENNESSEE																
CUMBERLAND CO																
440680001 A03	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.0				
TEXAS																
MATAGORDA CO																
453530001 A03	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%									0.05				
TOM GREEN CO																
459200001 A03	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%									0.06				
VERMONT																
ORANGE CO																
470340001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				
VIRGINIA																
SHENANDOAH NAT PAR																
482090001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%									0.0				
WYTHE CO																
483440001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%									0.0				

Table 4-4 (continued). FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
WASHINGTON																
KING CO																
490400002 A03	24	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%									0.00				

SECTION 5. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: NITRATE

Table 5-1. NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN 011480001 A01	26	0.10	0.30	0.40	0.90	1.10	1.20	1.30	1.50	1.80	2.20	3.30	1.23	0.74	0.96	2.26
HUNTSVILLE 011660001 A01	26	0.10	0.20	0.30	0.40	0.60	0.70	1.00	1.20	1.30	1.90	2.70	0.89	0.64	0.68	2.24
MOBILE 012360001 A01	22	0.50	0.80	1.20	1.40	1.50	1.70	2.00	2.60	3.00	3.00	6.40	2.15	1.48	1.77	1.89
MONTGOMERY 012460001 A01	26	0.0	0.20	0.40	0.50	0.60	0.90	0.90	1.20	1.60	1.99	2.30	0.95	0.62	0.71	2.61
ALASKA																
ANCHORAGE 020040003 A01	25	0.30	0.40	0.40	0.50	0.50	0.60	0.60	0.90	1.00	1.20	1.70	0.71	0.37	0.63	1.63
FAIRBANKS 020160001 A01	24	0.0	0.20	0.20	0.30	0.40	0.50	0.60	0.60	1.30	1.50	1.60	0.67	0.51	0.47	2.68
ARIZONA																
PHOENIX 030600002 A01	26	0.60	1.00	1.60	1.80	2.30	2.50	2.60	3.00	3.50	5.10	6.10	2.78	1.44	2.32	1.79
TUCSON 03C860001 A01	26	0.50	0.60	1.40	1.40	1.60	1.80	2.40	2.90	3.20	3.70	4.40	2.19	1.11	1.88	1.83
ARKANSAS																
LITTLE ROCK 041440001 A01	26	0.10	0.50	0.60	0.60	0.80	0.90	1.30	1.60	1.90	2.90	4.20	1.34	0.96	1.05	2.19
TEXARKANA 042560001 A01	26	0.10	0.20	0.30	0.40	0.50	0.60	0.70	1.20	1.40	1.80	2.30	0.85	0.63	0.63	2.29
CALIFORNIA																
ANAHEIM 050230001 A01	25	0.80	1.30	1.40	1.80	2.30	3.70	4.60	6.00	6.60	9.30	19.40	4.62	4.03	3.40	2.23
BURBANK 050900001 A01	24	1.00	1.30	2.00	3.00	3.30	3.80	4.10	4.60	5.20	5.40	11.00	3.88	2.11	3.37	1.76
FRESNO 052800001 A01	25	0.40	1.00	1.30	1.90	2.00	2.20	2.40	3.10	3.40	5.70	16.80	3.03	3.19	2.22	2.20
GLENDALE 052940001 A01	26	1.00	1.30	1.90	2.00	2.80	3.00	3.90	5.30	6.00	8.30	10.80	4.08	2.76	3.29	1.97
LONG BEACH 054100001 A01	24	0.80	1.10	1.40	2.60	3.10	3.50	4.30	4.90	7.30	8.40	11.90	4.32	2.95	3.38	2.13
LOS ANGELES 054140001 A01	24	2.20	2.80	3.10	4.50	4.70	5.30	6.80	7.20	7.70	9.40	23.90	6.64	4.67	5.72	1.70
OAKLAND 055900001 A01	26	0.0	0.90	1.50	2.20	2.50	2.90	3.40	5.10	5.40	6.80	7.80	3.37	2.16	2.36	3.21
ONTARIO 055380001 A01	25	1.40	1.80	3.10	4.40	4.60	6.70	7.30	9.40	9.60	14.20	27.10	7.71	5.98	5.92	2.14
RIVERSIDE 056400001 A01	26	1.10	2.10	2.50	3.40	4.40	4.70	7.50	7.90	10.20	12.50	19.90	6.81	5.01	5.31	2.09
SACRAMENTO 056980001 A01	25	0.20	0.80	0.90	1.20	1.70	2.80	2.70	3.40	3.40	5.80	7.60	2.60	1.91	1.96	2.28
SAN BERNARDINO 056660001 A01	26	0.90	2.90	3.60	5.60	8.50	9.70	13.20	14.80	16.80	18.70	24.00	10.72	6.45	8.25	2.34
SAN DIEGO 056900001 A01	24	0.70	1.40	2.10	2.10	2.70	3.60	4.20	4.40	5.20	7.80	9.60	3.93	2.36	3.26	1.92
SAN FRANCISCO 056960001 A01	25	0.30	0.50	0.80	0.80	1.20	1.40	1.70	2.80	3.60	5.30	6.20	2.22	1.77	1.61	2.33
SAN JOSE 056980001 A01	26	0.40	1.10	2.30	2.50	2.40	3.60	4.60	5.40	6.40	9.10	9.60	4.29	2.74	3.35	2.23
SANTA ANA 057140001 A01	25	1.10	1.60	2.50	2.80	3.40	4.30	4.90	7.60	8.10	10.60	16.10	5.54	4.00	4.34	2.08
TORRANCE 058240001 A01	25	0.20	0.40	0.40	1.10	1.90	2.70	3.50	3.90	4.60	5.40	66.00	5.17	12.84	1.96	3.64
COLORADO																
DENVER 060930001 A01	26	0.70	1.40	2.00	2.50	2.80	2.90	3.20	3.70	4.40	5.20	12.10	3.42	2.20	2.92	1.78
CONNECTICUT																
BRIDGEPORT 070660001 A01	25	0.40	0.60	0.70	0.80	0.90	0.90	0.90	1.10	1.10	1.80	6.20	1.19	1.12	0.98	1.71
HARTFORD 070420001 A01	25	0.10	0.10	0.30	0.30	0.60	0.60	0.70	0.80	0.90	1.10	2.10	0.68	0.48	0.51	2.39
NEW HAVEN 070700001 A01	26	0.10	0.20	0.20	0.30	0.40	0.40	0.50	0.70	0.70	1.40	1.40	0.54	0.43	0.46	2.04

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
CONNECTICUT																
WATERBURY																
071240001 A01	24	0.20	0.30	0.50	0.50	0.80	0.90	1.00	1.20	1.30	1.90	2.20	0.96	0.56	0.81	1.88
DELAWARE																
WILMINGTON																
080360001 A01	24	0.30	0.50	0.70	0.80	0.90	1.00	1.20	1.50	1.70	2.40	3.40	1.27	0.77	1.08	1.78
DIST COLUMBIA																
WASHINGTON																
090030001 A01	26	0.30	0.90	1.40	1.60	1.80	2.00	2.30	2.40	2.70	3.40	3.70	2.04	0.88	1.79	1.82
FLORIDA																
JACKSONVILLE																
101960002 A01	24	0.30	0.40	1.10	1.40	1.60	1.90	2.30	2.60	3.10	3.40	8.40	2.18	1.68	1.69	2.17
MIAMI																
102700001 A01	26	0.10	0.70	1.00	1.20	1.50	1.80	2.40	2.80	3.10	5.60	6.70	2.33	1.70	1.75	2.39
ST PETERSBURG																
105980002 A01	26	0.0	0.10	0.20	0.70	1.00	1.00	1.40	1.70	1.90	3.00	4.30	1.34	1.09	0.76	4.09
TAMPA																
104340002 A01	26	0.0	0.10	0.80	0.80	1.00	1.30	1.70	1.90	2.10	3.10	6.50	1.61	1.42	0.94	3.98
GEORGIA																
ATLANTA																
110200001 A01	26	0.0	0.10	0.70	1.20	1.40	1.50	1.90	2.00	2.00	2.80	4.10	1.39	1.04	1.02	3.77
COLUMBUS																
111280001 A01	24	0.20	0.20	0.30	0.40	0.50	0.50	0.60	0.90	1.30	1.50	1.70	0.72	0.49	0.57	2.02
SAVANNAH																
114500001 A01	25	0.40	0.50	0.60	0.80	0.90	1.20	1.30	1.60	1.70	3.00	3.70	1.40	0.92	1.15	1.90
HAWAII																
HONOLULU																
120120001 A01	26	0.0	0.30	0.30	0.40	0.40	0.50	0.60	0.90	1.10	1.20	2.20	0.71	0.52	0.54	2.36
IDAHO																
BOISE CITY																
130220001 A01	25	0.0	0.0	0.30	0.70	0.80	0.90	1.00	1.20	1.50	2.50	5.20	1.20	1.26	0.63	4.28
ILLINOIS																
CHICAGO																
141220001 A01	26	0.20	0.70	1.00	1.00	1.20	1.50	1.70	2.70	3.00	4.60	5.40	2.00	1.47	1.51	2.30
EAST ST LOUIS																
142120001 A01	25	0.0	0.30	0.80	1.00	1.10	1.30	1.40	1.70	1.90	3.00	3.40	1.45	0.88	1.09	2.72
JOLIET																
143760001 A01	23	0.70	0.80	0.90	1.20	1.40	1.40	1.70	1.80	2.30	3.60	5.50	1.87	1.29	1.57	1.77
NORTH CHICAGO																
145620002 A01	26	0.30	0.50	0.60	0.80	1.00	1.00	1.10	1.30	1.40	2.40	3.90	1.18	0.76	1.01	1.76
PEORIA																
146080001 A01	26	0.50	0.60	0.80	0.90	1.10	1.30	1.40	1.70	1.90	4.80	9.90	1.95	2.08	1.42	2.08
ROCKFORD																
146480001 A01	24	0.20	0.40	0.50	0.60	0.70	0.80	1.10	1.30	1.70	2.20	2.50	1.05	0.65	0.87	1.94
SPRINGFIELD																
147280001 A01	25	0.0	0.20	0.30	0.60	0.80	1.00	1.10	1.30	1.50	2.10	3.70	1.09	0.84	0.75	2.89
INDIANA																
EAST CHICAGO																
151180001 A01	25	0.50	0.70	0.80	1.00	1.10	1.50	1.70	2.60	3.80	4.60	14.00	2.56	2.91	1.72	2.34
EVANSVILLE																
151300001 A01	26	0.30	0.40	0.70	0.90	1.10	1.60	1.90	2.20	2.60	2.80	4.80	1.69	1.12	1.34	2.08
FORT WAYNE																
151380001 A01	25	0.20	0.50	0.70	1.00	1.10	1.60	1.80	1.90	2.60	3.50	5.10	1.80	1.27	1.41	2.14
GARY																
151520001 A01	23	0.40	0.60	1.00	1.10	1.30	1.30	1.70	2.00	2.30	3.40	10.00	2.03	2.03	1.51	2.11
HAMMOND																
151780001 A01	25	0.40	0.70	0.80	1.20	1.50	1.50	1.70	1.90	2.30	5.60	11.30	2.38	2.77	1.84	2.23
INDIANAPOLIS																
152040001 A01	25	0.20	0.50	0.80	1.10	1.30	1.50	1.80	2.20	2.30	2.80	4.80	1.68	1.01	1.37	2.09
NEW ALBANY																
152980002 A01	23	0.60	1.40	1.50	1.80	2.40	2.70	3.10	4.10	5.40	6.10	8.30	3.33	2.04	2.75	1.94
SOUTH BEND																
153880002 A01	25	0.20	0.30	0.50	0.60	0.70	0.80	0.80	1.10	1.60	2.00	3.40	1.05	0.81	0.82	2.04
TERRE HAUTE																
154080001 A01	23	0.20	0.30	0.50	0.50	0.80	1.00	1.30	1.70	2.10	2.30	7.40	1.43	1.51	0.98	2.47
IOWA																
DAVENPORT																
161960001 A01	26	0.10	0.70	1.20	1.60	2.90	3.50	5.60	7.00	8.00	10.80	12.20	4.67	3.75	2.95	3.19

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
IOWA																
DES MOINES 161180001 A01	25	0.50	0.60	0.70	0.90	1.10	1.30	1.40	2.10	2.60	4.50	5.90	1.84	1.53	1.41	2.04
DUBUQUE 161260001 A01	24	0.40	0.50	0.60	0.70	0.90	1.50	1.90	2.10	2.90	3.40	8.50	1.89	1.82	1.34	2.29
KANSAS																
KANSAS CITY 171800002 A01	25	0.40	0.70	0.80	1.10	1.20	1.50	1.70	2.30	2.60	3.20	10.10	2.09	2.05	1.58	2.05
TOPEKA 173560001 A01	26	0.30	0.50	0.70	0.90	1.00	1.10	1.50	1.80	2.00	2.80	3.80	1.45	0.89	1.20	1.90
WICHITA 173740001 A01	26	0.40	0.60	0.80	0.90	1.00	1.10	1.30	1.40	1.70	1.90	2.50	1.21	0.52	1.10	1.58
KENTUCKY																
ASHLAND 180980002 A01	24	0.50	0.80	0.90	1.10	1.30	1.40	1.50	1.90	2.80	6.00	10.10	2.25	2.27	1.65	2.07
COVINGTON 180900001 A01	26	0.30	0.50	0.70	0.70	1.00	1.20	1.60	1.80	2.10	2.70	3.10	1.41	0.81	1.18	1.89
LOUISVILLE 182580001 A01	25	0.40	1.00	1.10	1.40	1.50	1.90	2.00	2.10	2.80	3.90	4.00	1.98	0.99	1.75	1.70
LOUISIANA																
BATON ROUGE 190260001 A01	22	0.10	0.20	0.40	0.50	0.70	0.80	1.10	1.20	1.40	1.90	5.00	1.10	1.04	0.78	2.42
NEW ORLEANS 192020002 A01	25	0.90	1.20	1.60	1.70	2.10	2.20	2.70	3.10	3.70	4.80	5.90	2.69	1.31	2.40	1.64
SHREVEPORT 192740001 A01	25	0.20	0.20	0.20	0.30	0.40	0.40	0.50	0.70	0.90	1.20	1.80	0.61	0.44	0.49	1.98
MARYLAND																
BALTIMORE 210120001 A01	23	0.30	0.60	0.80	1.10	1.50	1.60	1.80	2.10	2.90	3.30	3.80	1.82	1.03	1.50	2.01
MASSACHUSETTS																
BOSTON 220240001 A01	24	0.20	0.30	0.30	0.40	0.70	0.90	1.00	1.10	1.40	1.40	4.60	0.99	0.87	0.77	2.05
FALL RIVER 220580002 A01	25	0.20	0.30	0.30	0.60	0.60	0.70	1.10	1.50	1.50	1.90	3.20	1.00	0.71	0.79	2.08
SPRINGFIELD 222160001 A01	26	0.0	0.10	0.20	0.30	0.30	0.40	0.50	0.60	0.70	0.80	1.70	0.46	0.35	0.34	2.42
WORCHESTER 222640001 A01	26	0.10	0.20	0.30	0.30	0.30	0.50	0.60	0.80	0.80	1.10	2.30	0.62	0.50	0.46	2.19
MICHIGAN																
DEARBORN 231140001 A01	25	0.70	1.00	1.10	1.20	1.30	1.70	1.90	2.70	3.90	6.10	7.50	2.50	1.91	1.98	1.96
DETROIT 231180001 A01	25	1.00	1.30	1.70	1.90	2.10	2.70	3.00	3.10	4.60	5.70	10.90	3.32	2.36	2.76	1.82
FLINT 231980001 A01	23	0.80	1.50	2.30	2.50	2.70	2.80	3.00	3.50	5.10	7.30	12.80	3.73	2.68	3.06	1.88
GRAND RAPIDS 231820001 A01	26	0.80	1.50	1.90	2.00	2.50	2.70	3.70	5.20	5.50	6.60	11.30	3.83	2.54	3.14	1.92
LANSING 232840001 A01	26	0.40	0.50	0.60	0.60	0.70	0.80	1.00	1.10	1.30	1.90	4.90	1.17	1.10	0.92	1.87
SAGINAW 234760001 A01	26	0.20	0.30	0.40	0.50	0.70	0.80	0.90	1.10	1.30	2.10	3.20	0.96	0.68	0.77	1.97
TRENTON 235120001 A01	23	1.00	1.30	1.60	1.80	2.10	2.20	2.50	2.50	2.90	3.40	23.20	3.16	4.43	2.36	1.83
MINNESOTA																
DULUTH 241040001 A01	25	0.20	0.40	0.40	0.60	0.70	0.80	0.80	1.10	1.30	1.60	7.50	1.32	1.85	0.84	2.29
MINNEAPOLIS 242260001 A01	25	0.20	0.40	0.40	0.80	0.90	1.30	1.40	1.70	2.10	2.50	6.50	1.50	1.30	1.12	2.23
MOORHEAD 242320001 A01	25	0.20	0.40	0.60	0.80	0.90	1.00	1.20	1.40	1.60	2.40	2.90	1.20	0.69	1.01	1.90
ST PAUL 243300001 A01	25	0.30	0.40	0.40	0.70	0.80	0.80	1.00	1.10	1.60	2.30	3.90	1.11	0.83	0.89	1.93
MISSOURI																
KANSAS CITY 262380002 A01	24	0.50	0.60	0.70	0.90	1.50	1.70	2.00	2.10	3.10	3.30	5.30	1.99	1.30	1.50	2.03
ST LOUIS 264280001 A01	23	1.00	1.10	1.40	1.70	2.40	2.70	3.20	3.40	4.80	5.40	9.20	3.24	2.02	2.71	1.86

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
MONTANA																
HELENA																
270720001 A01	24	0.10	0.20	0.30	0.40	0.50	0.50	0.50	0.60	1.10	1.30	1.60	0.62	0.41	0.50	1.90
NEBRASKA																
OMAHA																
281980001 A01	26	0.20	0.80	1.00	1.10	1.40	1.60	1.70	2.10	2.50	3.30	7.20	1.96	1.49	1.54	2.13
NEVADA																
LAS VEGAS																
290320001 A01	22	0.50	0.60	1.20	1.50	1.70	1.80	2.10	2.40	2.50	3.00	3.60	1.91	0.87	1.68	1.77
RENO																
290480001 A01	26	0.10	0.50	0.70	0.80	0.90	1.00	1.40	1.60	2.40	3.50	6.40	1.57	1.38	1.13	2.86
NEW HAMPSHIRE																
CONCORD																
300120001 A01	24	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.40	0.70	2.10	0.37	0.44	0.26	2.28
NEW JERSEY																
BURLINGTON CO																
310660002 A01	26	0.30	1.00	1.20	1.30	1.80	2.30	2.50	2.60	2.60	3.10	5.50	2.08	1.06	1.80	1.84
CAMDEN																
310720001 A01	24	0.40	1.10	1.30	1.50	1.90	2.00	2.40	2.80	3.80	4.10	5.00	2.37	1.25	2.02	1.86
ELIZABETH																
311300001 A01	25	0.20	0.30	0.50	0.70	0.80	1.10	1.10	1.30	1.50	1.80	2.[illegible]	1.04	0.531	0.88	1.87
GLASSBORO																
311700001 A01	25	0.20	0.20	0.30	0.50	0.60	0.90	1.30	1.40	1.70	2.70	2.90	1.13	0.85	0.82	2.38
HAMILTON																
311940001 A01	23	0.20	0.50	0.70	0.80	0.90	1.00	1.40	1.40	1.50	2.80	2.90	1.24	0.74	1.04	1.88
JERSEY CITY																
312320001 A01	26	0.40	0.50	0.70	0.90	1.00	1.20	1.50	1.70	1.80	2.30	2.80	1.31	0.62	1.16	1.67
NEWARK																
313480001 A01	25	0.20	0.50	0.80	1.00	1.00	1.20	1.20	1.70	1.80	1.90	2.50	1.27	0.60	1.09	1.90
PATERSON																
314140001 A01	25	0.10	0.20	0.40	0.50	0.60	0.70	1.00	1.20	1.50	1.90	2.50	0.96	0.66	0.73	2.31
PERTH AMBOY																
314720001 A01	24	0.10	0.10	0.40	0.40	0.50	0.70	1.00	1.00	1.10	1.20	2.30	0.77	0.52	0.58	2.34
TRENTON																
315400001 A01	24	0.30	0.50	0.60	0.80	0.90	1.00	1.20	1.20	1.30	1.90	3.10	1.12	0.82	0.99	1.68
NEW MEXICO																
ALBUQUERQUE																
320040001 A01	26	0.40	0.60	0.80	1.10	1.20	1.90	1.80	1.90	2.10	2.40	5.70	1.70	1.19	1.41	1.85
NEW YORK																
ALBANY																
330040001 A01	25	0.10	0.30	0.40	0.50	0.50	0.70	0.90	1.00	1.20	2.00	3.60	0.97	0.84	0.71	2.28
BUFFALO																
330660001 A01	24	0.10	0.80	1.00	1.30	1.40	1.50	1.80	1.90	2.80	3.30	4.10	1.80	0.98	1.49	2.10
NEW YORK CITY																
334640001 A01	24	0.50	0.60	0.70	0.90	1.00	1.10	1.30	1.50	2.00	2.20	2.60	1.28	0.60	1.15	1.61
NIAGARA FALLS																
334760301 A01	26	0.20	0.50	0.90	1.30	1.60	2.10	2.40	3.00	3.10	4.10	4.90	2.17	1.31	1.69	2.28
ROCHESTER																
335760001 A01	25	0.40	0.60	0.80	1.00	1.30	1.60	1.90	2.10	2.30	2.90	5.10	1.76	1.13	1.45	1.91
SYRACUSE																
336620001 A01	25	0.30	1.50	2.10	2.50	3.20	3.50	3.80	4.40	4.60	5.70	13.10	3.85	2.50	3.14	2.07
UTICA																
336980001 A01	26	0.20	0.30	0.40	0.40	0.70	0.80	1.00	1.30	1.50	3.00	3.90	1.13	1.01	0.81	2.30
NORTH CAROLINA																
CHARLOTTE																
340700001 A01	24	0.20	0.40	0.50	0.60	0.70	0.90	1.30	1.50	2.20	2.70	3.80	1.28	0.95	0.99	2.13
DURHAM																
341160001 A01	26	0.10	0.20	0.30	0.30	0.70	0.80	1.00	1.30	1.50	1.70	1.90	0.90	0.59	0.65	2.51
GREENSBORO																
341740001 A01	24	0.90	1.30	1.40	1.70	1.90	2.10	2.50	2.60	2.90	3.30	4.50	2.30	0.94	2.13	1.52
WINSTON-SALEM																
344460002 A01	25	0.20	0.20	0.20	0.60	0.80	1.00	1.00	1.30	1.30	2.10	3.20	1.06	0.79	0.78	2.36
NORTH DAKOTA																
BISMARCK																
350100001 A01	25	0.20	0.30	0.50	0.60	0.60	0.80	0.90	1.20	1.50	2.20	5.30	1.20	1.22	0.87	2.17
OHIO																
CANTON																
361[illegible] A01	26	0.50	0.70	1.00	1.10	1.10	1.30	1.70	2.30	2.30	2.60	4.60	1.69	0.93	1.43	1.74

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OHIO																
CINCINNATI 361220001 A01	26	0.40	0.70	2.00	2.90	3.40	3.40	3.90	4.40	5.50	5.80	6.60	3.93	1.77	2.91	2.14
CLEVELAND 361300001 A01	25	0.50	0.80	1.20	1.70	1.90	2.60	2.80	3.20	3.80	5.40	6.80	2.69	1.64	2.20	1.98
COLUMBUS 361460001 A01	25	1.10	1.30	2.10	2.40	2.70	3.30	3.90	4.10	5.40	6.90	8.50	3.77	2.06	3.26	1.73
DAYTON 361660001 A01	25	1.40	1.60	1.70	2.10	2.90	3.70	4.00	4.50	4.90	6.10	7.80	3.61	1.72	3.21	1.66
TOLEDO 366600001 A01	26	0.70	0.70	0.90	1.20	1.40	1.40	1.90	2.20	2.30	2.60	4.40	1.71	0.87	1.52	1.65
YOUNGSTOWN 367760001 A01	26	0.30	0.70	0.90	1.10	1.30	2.00	2.10	3.10	3.30	3.70	7.20	2.19	1.52	1.75	2.01
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.50	0.60	0.80	1.00	1.30	1.70	1.70	2.10	2.50	2.60	3.30	1.62	0.82	1.41	1.76
TULSA 373000001 A01	26	1.10	1.20	1.90	2.10	2.30	2.40	2.60	2.80	3.40	3.80	10.80	2.88	1.93	2.53	1.62
OREGON																
MEDFORD 381160001 A01	23	0.30	0.50	0.70	0.80	1.20	1.30	1.40	1.60	2.70	3.90	5.30	1.67	1.29	1.29	2.18
PORTLAND 381460001 A01	25	0.40	1.60	1.80	2.30	2.40	2.70	2.90	4.30	4.50	5.50	8.10	3.24	1.94	2.65	2.05
PENNSYLVANIA																
ALLENTOWN 390120001 A01	25	1.30	1.30	2.20	2.90	3.30	4.30	4.70	5.30	8.40	9.50	10.80	5.21	3.14	4.25	1.98
ALTOONA 390140001 A01	23	0.20	0.30	0.50	0.80	1.20	1.40	1.60	1.90	2.90	3.70	4.90	1.68	1.28	1.22	2.42
BETHLEHEM 390780002 A01	25	0.60	0.60	0.70	1.10	1.20	1.60	1.90	2.80	4.30	5.10	7.20	2.32	1.85	1.75	2.21
ERIE 393360002 A01	25	0.60	0.70	0.90	1.30	1.70	2.10	2.50	3.20	3.70	4.30	9.60	2.71	2.19	2.06	2.12
HARRISBURG 393880001 A01	24	0.50	0.50	0.60	1.10	1.20	1.40	1.70	1.80	1.90	2.50	2.90	1.48	0.72	1.27	1.73
HAZLETON 393960001 A01	23	0.20	0.30	0.50	0.50	0.60	0.60	1.00	1.10	1.40	2.30	21.30	1.79	4.30	0.84	2.62
JOHNSTOWN 394460001 A01	24	0.40	0.40	0.50	0.90	0.90	1.40	3.00	3.10	3.60	4.00	6.00	2.18	1.68	1.54	2.49
PUERTO RICO																
CATANO 400560002 A01	26	0.0	0.0	0.10	0.20	0.30	0.30	0.30	0.70	0.80	1.20	3.10	0.51	0.64	0.27	3.45
GUAYANILLA 401080002 A01	23	0.30	0.30	0.50	0.50	0.60	0.70	0.80	0.80	1.00	1.00	1.50	0.72	0.51	0.66	1.56
PONCE 401420002 A01	23	0.40	0.50	0.50	0.60	0.80	0.80	0.90	0.90	1.10	1.10	1.50	0.82	0.27	0.77	1.41
SAN JUAN 402140001 A01	26	0.60	0.70	0.70	0.80	0.90	1.00	1.10	1.20	1.40	1.60	3.10	1.12	0.51	1.04	1.44
RHODE ISLAND																
EAST PROVIDENCE 410120001 A01	25	0.50	1.10	1.70	2.00	2.30	2.50	2.70	3.00	3.20	3.90	6.00	2.58	1.14	2.31	1.69
PROVIDENCE 410300001 A01	26	0.30	0.30	0.40	0.40	0.70	0.70	1.00	1.30	1.90	2.10	2.90	1.02	0.74	0.80	2.04
SOUTH CAROLINA																
COLUMBIA 420760001 A01	22	0.33	0.40	0.50	0.60	0.60	0.70	0.70	0.90	1.00	1.10	1.90	0.75	0.35	0.69	1.55
GREENVILLE 421180001 A01	25	1.00	1.20	1.80	2.20	2.40	2.60	2.60	3.00	3.10	3.60	4.00	2.52	0.82	2.37	1.46
TENNESSEE																
CHATTANOOGA 440380001 A01	26	1.50	2.10	2.70	2.80	3.00	3.20	3.80	4.10	4.30	5.10	17.30	3.98	2.93	3.49	1.59
KNOXVILLE 441740001 A01	24	0.30	0.50	0.60	1.00	1.20	1.80	2.30	2.30	3.40	4.00	4.20	1.96	1.28	1.52	2.20
MEMPHIS 442460001 A01	26	0.10	0.30	0.50	0.60	0.80	0.80	1.10	1.40	1.80	2.10	4.50	1.17	0.94	0.88	2.26
NASHVILLE 442540001 A01	25	0.20	0.40	0.50	1.10	1.20	1.20	1.40	1.80	1.80	2.40	3.40	1.41	0.83	1.15	2.02

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
DALLAS																
451310002 A01	25	0.70	0.70	0.80	1.00	1.00	1.20	1.40	1.50	1.60	2.40	3.40	1.34	0.66	1.20	1.60
FORT WORTH																
451880001 A01	25	0.80	1.00	1.40	1.50	1.60	1.80	1.90	2.10	2.20	2.70	3.20	1.85	0.61	1.75	1.41
TEXAS																
HOUSTON																
452560001 A01	25	0.50	1.30	1.80	1.90	2.60	3.00	3.80	4.20	4.50	5.60	7.20	3.34	1.78	2.81	1.93
PASADENA																
454080002 A01	24	0.60	0.90	1.00	1.50	1.60	1.80	2.60	2.70	3.40	3.70	4.00	2.14	1.07	1.86	1.76
SAN ANTONIO																
454570001 A01	26	0.50	0.80	1.10	1.20	1.50	1.70	1.80	2.10	2.10	3.50	3.60	1.79	0.86	1.58	1.69
UTAH																
OGDEN																
466880001 A01	24	0.50	0.80	0.90	1.00	1.10	1.30	1.60	1.70	2.50	2.50	3.70	1.58	0.83	1.40	1.67
SALT LAKE CITY																
468920001 A01	26	0.40	0.70	0.90	1.00	1.10	1.20	1.30	3.10	3.70	4.30	15.20	2.39	2.94	1.61	2.29
VERMONT																
BURLINGTON																
470140001 A01	23	0.50	0.60	0.60	0.80	1.00	1.10	1.20	1.50	2.30	3.80	4.00	1.50	1.10	1.21	1.92
VIRGINIA																
DANVILLE																
480920001 A01	25	0.20	0.30	0.30	0.40	1.00	1.30	1.60	1.70	1.80	2.30	2.60	1.26	0.77	0.97	2.27
HAMPTON																
481440001 A01	26	0.30	0.40	0.50	0.50	0.80	0.80	0.90	1.00	1.00	1.30	2.20	0.83	0.48	0.72	1.69
LYNCHBURG																
481840001 A01	25	0.20	0.60	0.90	1.00	1.10	1.20	1.30	1.30	1.40	2.00	4.20	1.28	0.76	1.11	1.78
NEWPORT NEWS																
482120001 A01	24	0.30	1.10	1.20	1.60	1.80	2.00	2.30	2.40	2.80	3.20	5.10	2.10	1.02	1.84	1.77
NORFOLK																
482140001 A01	26	0.40	0.80	1.00	1.10	1.30	1.40	1.50	2.00	2.90	3.70	7.00	1.92	1.41	1.57	1.88
PORTSMOUTH																
482440001 A01	26	0.20	0.90	1.00	1.20	1.40	2.00	2.50	2.70	3.20	4.40	6.60	2.31	1.49	1.85	2.09
RICHMOND																
482660001 A01	25	0.30	0.40	0.40	0.60	0.70	0.70	1.00	1.40	1.50	2.00	7.90	1.28	1.56	0.89	2.19
ROANOKE																
482760001 A01	26	1.30	1.50	1.90	2.30	2.40	2.50	3.10	3.20	3.50	4.20	5.00	2.78	0.96	2.62	1.44
WASHINGTON																
SEATTLE																
491840001 A01	26	0.30	0.40	0.80	1.00	1.10	1.10	1.30	1.40	1.60	2.70	2.80	1.29	0.67	1.13	1.75
SPOKANE																
492040001 A01	25	0.20	0.30	0.50	0.60	0.60	0.60	0.70	0.80	0.90	0.90	1.50	0.66	0.27	0.60	1.58
TACOMA																
492140001 A01	25	0.40	0.40	0.90	1.50	1.50	1.90	2.30	3.20	3.50	4.40	4.60	2.23	1.37	1.77	2.14
WEST VIRGINIA																
CHARLESTON																
500260001 A01	25	0.30	0.40	0.40	0.50	0.60	0.60	1.00	1.20	1.70	3.10	7.90	1.32	1.51	0.90	2.30
WISCONSIN																
EAU CLAIRE																
510840002 A01	23	0.20	0.30	0.40	0.40	0.50	0.50	0.70	0.70	0.80	1.20	1.50	0.64	0.34	0.56	1.67
KENOSHA																
511540001 A01	26	0.20	0.50	0.60	0.70	0.90	1.20	1.40	1.80	1.90	2.30	3.10	1.27	0.74	1.05	1.95
MADISON																
511660001 A01	25	0.30	0.50	0.60	0.60	0.70	0.80	0.80	1.20	1.20	1.40	1.90	0.88	0.40	0.79	1.60
MILWAUKEE																
512200001 A01	26	0.60	0.70	0.90	1.20	1.30	1.60	1.80	3.10	4.50	5.00	12.00	2.75	2.75	1.91	2.30
RACINE																
512680001 A01	24	0.20	0.50	0.60	0.80	0.90	1.10	1.20	1.40	1.60	2.40	3.40	1.24	0.76	1.03	1.91
SUPERIOR																
513480001 A01	26	0.20	0.30	0.50	0.50	0.50	0.60	0.70	0.90	1.40	2.60	6.10	1.08	1.24	0.74	2.27
WYOMING																
CASPER																
520120001 A01	25	0.10	0.20	0.30	0.30	0.40	0.60	0.70	1.00	1.00	1.10	2.30	0.71	0.49	0.56	2.10
CHEYENNE																
520140001 A01	25	0.10	0.30	0.40	0.50	0.50	1.00	1.10	1.30	1.50	1.60	4.50	1.04	0.88	0.78	2.26

Table 5-2. NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P 040370001 A03	24	0.0	0.10	0.10	0.20	0.30	0.40	0.70	0.70	0.90	1.00	1.10	0.51	0.39	0.39	2.72
ARKANSAS																
MONTGOMERY CO 051760001 A03	24	0.10	0.20	0.20	0.40	0.50	0.50	0.90	1.00	1.20	1.20	1.40	0.69	0.44	0.53	2.25
CALIFORNIA																
HUMBOLDT CO 093300001 A03	26	0.0	0.0	0.20	0.20	0.30	0.50	0.60	0.70	0.90	1.20	1.60	0.55	0.46	0.34	3.36
COLORADO																
MESA VERDE NAT PAR 061930002 A03	26	0.10	0.10	0.30	0.30	0.30	0.40	0.60	0.70	1.00	2.40	0.52	0.49	0.38	2.16	
FLORIDA																
HARDEE CO 101600001 A03	24	0.10	0.20	0.20	0.30	0.30	0.30	0.40	0.50	0.70	1.20	0.39	0.27	0.33	1.84	
IDAHO																
BUTTE CO 130940001 A03	24	0.10	0.20	0.20	0.20	0.30	0.30	0.40	0.50	0.50	0.60	0.70	0.35	0.17	0.31	1.73
INDIANA																
MONROE CO 152080001 A03	24	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.50	0.90	1.10	1.40	0.46	0.37	0.34	2.28
PARKE CO 153260001 A03	23	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.80	1.70	0.36	0.39	0.23	2.79
MAINE																
ACADIA NAT PARK 200010001 A03	26	0.0	0.10	0.20	0.20	0.30	0.50	0.80	0.90	1.00	1.50	1.80	0.64	0.52	0.39	3.32
MARYLAND																
CALVERT CO 210280001 A03	25	0.0	0.0	0.10	0.20	0.30	0.40	0.60	0.80	0.90	1.30	1.40	0.53	0.46	0.31	3.59
MISSOURI																
SHANNON CO 264480002 A03	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.70	1.40	0.28	0.34	0.15	3.36
MONTANA																
GLACIER NAT PARK 270970001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.14	0.09	0.11	2.15
NEBRASKA																
THOMAS CO 282480001 A03	25	0.0	0.10	0.20	0.30	0.40	0.60	0.70	1.10	1.40	1.60	2.80	0.79	0.74	0.45	3.92
NEVADA																
WHITE PINE CO 290560001 A03	23	0.0	0.10	0.20	0.20	0.30	0.40	0.50	0.50	0.80	0.90	1.40	0.48	0.35	0.35	2.50
NEW HAMPSHIRE																
COOS CO 300140001 A03	22	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.60	1.10				
NEW YORK																
JEFFERSON CO 333340001 A03	25	0.10	0.10	0.20	0.20	0.30	0.40	0.40	0.70	1.10	1.40	3.00	0.64	0.66	0.42	2.54
NORTH CAROLINA																
CAPE HATTERAS NAT 340990001 A03	23	0.20	0.30	0.40	0.70	0.80	1.00	1.20	1.30	1.80	1.90	4.30	1.17	0.87	0.92	2.07
OKLAHOMA																
CHEROKEE CO 370480001 A03	26	0.10	0.20	0.20	0.30	0.60	0.70	0.90	1.10	1.30	1.70	2.40	0.84	0.61	0.61	2.48
OREGON																
CURRY CO 380440001 A03	25	0.0	0.0	0.10	0.20	0.20	0.20	0.20	0.30	0.30	0.40	0.70	0.24	0.15	0.18	2.38
PENNSYLVANIA																
CLARION CO 391760001 A03	26	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.70	1.10	1.60	0.40	0.44	0.26	2.44
RHODE ISLAND																
WASHINGTON CO 410560002 A03	27	0.10	0.20	0.20	0.20	0.40	0.50	0.80	0.90	1.10	1.60	2.60	0.72	0.61	0.51	2.39
SOUTH CAROLINA																
RICHLAND CO 421980001 A03	25	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.70	0.90	1.20	1.60	0.55	0.43	0.41	2.30
SOUTH DAKOTA																
BLACK HILLS NAT FO 430110001 A03	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.90	0.21	0.19	0.16	2.09
TENNESSEE																
CUMBERLAND CO 440680001 A03	23	0.20	0.20	0.30	0.30	0.40	0.40	0.50	0.80	1.10	1.70	2.50	0.75	0.67	0.54	2.22

Table 5-2 (continued). NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
TEXAS																
MACKENZIE CO 481130001 A03	26	0.40	0.50	0.80	1.10	1.20	1.30	1.40	1.60	1.90	2.20	4.30	1.43	0.89	1.23	1.75
VERMONT																
ORANGE CO 470360001 A03	26	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.40	0.60	0.90	1.10	0.38	0.30	0.28	2.17
VIRGINIA																
SHENANDOAH NAT PAR 482090001 A03	26	0.20	0.30	0.60	0.70	0.80	0.90	1.10	1.30	1.80	2.10	3.30	1.16	0.76	0.93	2.00
WYTHE CO 483440001 A03	25	0.10	0.20	0.20	0.40	0.40	0.50	0.70	0.70	0.90	1.30	1.50	0.61	0.40	0.48	2.13
WISCONSIN																
DOOR CO 510780001 A03	25	0.0	0.10	0.20	0.30	0.40	0.40	0.40	0.60	0.60	0.70	0.90	0.41	0.23	0.33	2.29
WYOMING																
YELLOWSTONE NAT PA 520860001 A03	23	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.30	0.30	0.16	0.08	0.14	1.95

Table 5-3. NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN																
011480001 A01	23	0.30	0.90	1.50	1.80	1.90	2.30	2.50	2.60	3.00	3.90	6.60	2.38	1.351	1.99	1.96
HUNTSVILLE																
011860001 A01	26	0.40	0.40	0.90	1.00	1.30	1.80	2.00	2.60	2.80	3.00	3.60	1.77	0.961	1.48	1.95
MONTGOMERY																
012460001 A01	25	0.20	0.90	1.30	1.50	1.70	1.90	2.10	2.40	2.60	4.00	4.60	2.10	1.08	1.78	1.96
ALASKA																
ANCHORAGE																
020040003 A01	24	0.0	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.80	0.90	6.50	0.73	1.27	0.38	3.27
ARIZONA																
MARICOPA CO																
030440001 A01	26	0.30	0.60	2.10	2.30	2.50	2.60	3.00	4.00	4.30	4.50	7.60	2.93	1.62	2.34	2.23
TUCSON																
030860001 A01	26	1.10	1.20	1.60	1.70	1.90	2.40	2.60	2.80	3.30	3.60	5.10	2.46	1.05	2.26	1.53
ARKANSAS																
LITTLE ROCK																
041440001 A01	24	0.30	0.70	1.20	1.80	2.00	2.30	2.50	2.60	3.10	4.10	4.30	2.27	1.13	1.91	1.99
WEST MEMPHIS																
042740001 A01	24	0.20	0.80	1.10	1.70	1.80	2.60	2.70	2.80	3.60	4.50	5.00	2.41	1.32	1.95	2.17
CALIFORNIA																
ANAHEIM																
050230001 A01	26	1.60	4.60	5.90	6.80	6.40	6.50	9.40	11.90	13.30	20.10	28.50	8.55	6.19	7.88	1.93
BURBANK																
050490002 A01	25	3.90	4.00	5.60	6.60	7.10	8.40	9.00	10.00	11.60	16.90	20.90	9.42	4.72	8.42	1.62
FRESNO																
052800002 A01	23	1.80	3.30	4.10	4.60	5.40	5.50	5.70	6.80	9.20	10.80	34.80	7.24	6.56	5.89	1.91
GLENDALE																
052940001 A01	26	3.20	5.20	6.30	7.40	8.20	8.60	8.70	9.90	11.30	14.70	18.90	9.20	3.86	8.90	1.50
LONG BEACH																
054100001 A01	26	1.40	3.50	4.70	5.40	7.20	9.20	10.50	13.30	14.90	16.30	20.70	9.54	5.19	7.88	2.02
LOS ANGELES																
054180001 A01	25	4.80	6.30	7.20	8.20	11.30	12 90	12.80	13.80	16.60	20.70	24.60	12.56	5.42	11.43	1.57
OAKLAND																
055300001 A01	26	0.50	1.50	1.70	2.10	3.00	3.30	3.60	4.60	5.80	8.30	10.20	3.93	2.57	3.15	2.05
ONTARIO																
055380001 A01	25	1.80	4.80	5.10	6.70	7.60	10.80	12.00	12.30	15.90	19.60	23.60	10.85	5.85	9.27	1.83
PASADENA																
055760002 A01	23	0.50	3.60	5.90	7.20	8.20	8.60	8.80	9.60	14.00	18.40	31.00	10.60	7.28	8.32	2.27
RIVERSIDE																
056400001 A01	25	1.30	3.20	4.60	5.70	8.20	12.10	15.40	19.40	25.20	27.90	33.20	13.96	9.89	10.12	2.48
SACRAMENTO																
056580001 A01	26	1.40	2.40	2.90	3.00	3.60	3.60	4.20	4.70	4.80	5.10	6.50	3.81	1.22	3.60	1.44
SAN BERNARDINO																
056690001 A01	23	2.30	4.80	6.30	10.10	11.20	13.20	13.70	16.50	22.80	33.90	38.80	15.44	10.13	12.40	2.04
SAN DIEGO																
056800001 A01	24	0.90	2.20	3.00	4.10	4.60	5.10	5.70	6.00	6.50	8.20	17.10	5.36	3.22	4.54	1.86
SAN FRANCISCO																
056860001 A01	25	0.70	1.00	1.10	1.20	1.40	2.00	2.40	3.50	3.90	5.10	11.20	2.76	2.34	2.12	2.05
SANTA ANA																
057140001 A01	26	1.60	4.80	6.10	7.60	8.50	8.80	9.60	11.60	12.10	13.80	24.50	9.53	4.54	8.47	1.70
TORRANCE																
058260001 A01	26	1.30	2.10	2.80	3.10	4.70	5.60	6.70	8.50	9.10	9.40	14.60	6.05	3.35	5.11	1.87
COLORADO																
DENVER																
060580001 A01	26	0.99	1.30	1.80	1.90	2.20	2.40	2.60	2.80	3.20	5.10	14.90	3.09	2.84	2.50	1.81
CONNECTICUT																
BRIDGEPORT																
070040001 A01	26	0.50	0.50	0.70	0.80	1.30	1.50	1.60	2.10	2.70	3.00	5.80	1.70	1.18	1.39	1.93
HARTFORD																
070470001 A01	26	0.20	0.20	0.50	0.50	0.70	0.70	1.00	1.80	1.90	3.10	3.70	1.23	1.03	0.88	2.37
NEW HAVEN																
072720001 A01	26	0.20	0.20	0.20	0.50	0.40	0.90	1.00	1.70	2.40	3.50	4.10	1.38	1.39	0.87	2.78
WATERBURY																
071240001 A01	25	0.20	0.30	0.70	0.90	1.30	1.70	1.90	2.30	3.98	4.60	7.40	2.24	1.96	1.52	2.62
DELAWARE																
NEWARK																
080140001 A01	25	0.10	0.30	0.70	1.10	1.60	1.90	2.10	2.30	2.50	3.20	5.30	1.91	1.25	1.41	2.58

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
DELAWARE																
WILMINGTON																
080260003 A01	25	0.40	0.60	1.20	1.60	2.00	2.30	2.40	3.20	3.50	4.00	6.70	2.46	1.41	2.03	2.02
FLORIDA																
JACKSONVILLE																
101960002 A01	25	0.90	1.00	1.20	1.70	2.00	2.20	2.30	2.70	3.00	3.60	4.00	2.24	0.90	2.05	1.56
MIAMI																
102700002 A01	25	0.60	1.00	1.10	1.30	1.40	1.50	2.00	2.40	2.50	3.00	5.90	1.95	1.11	1.72	1.66
ST PETERSBURG																
103480002 A01	24	0.30	1.30	1.60	1.80	2.00	2.10	2.50	2.50	2.70	3.00	5.30	2.23	0.97	2.00	1.72
TAMPA																
104360002 A01	26	1.30	1.50	2.00	2.00	2.30	2.40	2.70	3.10	3.30	6.30	7.50	3.01	1.70	2.67	1.62
GEORGIA																
ATLANTA																
110260001 A01	26	0.20	1.50	1.70	1.90	2.20	2.60	2.70	3.10	3.40	4.40	4.80	2.62	1.09	2.31	1.84
COLUMBUS																
111280001 A01	23	0.10	0.30	0.90	1.00	1.30	1.60	1.80	1.90	2.40	2.50	3.20	1.54	0.84	1.21	2.37
SAVANNAH																
114500001 A01	26	0.40	1.00	1.30	1.50	1.60	1.90	2.00	2.50	2.80	3.50	5.30	2.10	1.10	1.85	1.71
HAWAII																
HONOLULU																
120120001 A01	25	0.20	0.20	0.20	0.20	0.30	0.30	0.40	0.60	0.80	1.10	1.60	0.52	0.40	0.41	1.99
IDAHO																
BOISE CITY																
130220001 A01	23	0.30	0.50	0.60	0.70	1.00	1.10	1.30	1.50	1.70	2.70	4.30	1.34	0.93	1.09	1.93
ILLINOIS																
CHICAGO																
141220001 A01	26	0.0	0.20	0.90	1.00	1.70	2.40	3.50	4.10	4.40	5.60	6.60	2.65	1.98	1.45	4.65
NORTH CHICAGO																
145620002 A01	25	0.30	1.00	1.10	2.20	2.90	3.60	4.20	4.40	5.30	6.70	10.90	3.78	2.52	2.92	2.27
PEORIA																
146080001 A01	26	0.80	1.50	2.10	2.80	3.30	3.40	4.10	4.60	5.30	6.80	11.50	4.07	2.51	3.44	1.82
ROCK ISLAND																
146700001 A01	24	0.30	1.50	1.90	2.80	3.00	3.10	3.30	3.60	4.50	5.50	12.00	3.59	2.42	2.91	2.06
SPRINGFIELD																
147280001 A01	25	0.60	1.40	1.80	2.10	2.20	3.20	3.70	3.80	4.20	4.80	5.60	3.04	1.37	2.69	1.73
INDIANA																
EAST CHICAGO																
151180001 A01	26	1.00	1.40	1.70	2.40	3.80	3.99	4.70	5.30	7.10	7.40	11.60	4.40	2.60	3.64	1.93
EVANSVILLE																
151900001 A01	26	1.20	1.60	2.10	2.40	3.00	3.30	3.90	4.20	5.40	6.70	9.70	3.88	2.11	3.39	1.72
FORT WAYNE																
151380001 A01	24	0.70	1.60	2.20	2.90	3.30	3.80	4.20	5.80	6.20	10.10	17.10	5.06	4.10	3.88	2.12
GARY																
151520001 A01	23	0.70	1.80	3.00	3.20	4.50	5.00	5.10	6.60	7.60	8.30	10.60	5.19	2.70	4.37	1.94
HAMMOND																
151780001 A01	26	0.80	1.40	1.60	1.90	2.60	3.20	4.00	4.40	4.90	6.90	10.10	3.62	2.21	2.99	1.93
INDIANAPOLIS																
152040001 A01	25	0.80	1.30	2.30	2.80	2.90	3.60	3.90	4.40	5.00	6.40	9.40	3.86	2.06	3.31	1.83
NEW ALBANY																
152980002 A01	21	0.70	2.00	2.40	2.70	3.10	3.40	3.80	4.70	5.60	7.20	11.30	4.15	2.50	3.93	1.82
SOUTH BEND																
153680002 A01	22	0.60	1.10	1.30	1.80	3.10	3.60	3.70	4.00	5.00	5.70	10.00	3.53	2.18	2.88	2.01
TERRE HAUTE																
154080001 A01	26	0.60	0.80	1.30	1.40	2.00	2.40	2.90	4.00	4.40	5.10	6.30	2.75	1.62	2.27	1.93
IOWA																
CEDAR RAPIDS																
160640001 A01	23	0.0	0.0	0.80	1.50	2.40	2.90	2.80	3.10	3.60	4.10	8.30	2.64	2.06	1.37	5.53
DAVENPORT																
161060001 A01	25	1.90	2.30	2.90	3.30	4.10	5.30	5.70	7.70	8.20	10.70	25.60	6.40	4.97	5.21	1.87
DES MOINES																
161180001 A01	24	0.70	1.20	1.50	1.90	2.10	2.90	3.30	3.90	4.40	6.00	7.30	3.15	1.85	2.66	1.85
KANSAS																
KANSAS CITY																
171800002 A01	26	0.50	0.80	1.40	1.70	1.90	2.60	2.90	3.40	3.70	5.70	7.10	2.83	1.79	2.28	2.05
TOPEKA																
173560001 A01	26	0.70	1.00	1.40	2.10	2.30	2.60	3.10	4.40	4.90	7.80	9.10	3.49	2.41	2.77	2.03

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
KANSAS																
WICHITA 179740001 A01	25	1.00	1.20	1.50	2.00	2.10	2.50	2.70	3.30	3.60	8.30	11.30	3.40	2.72	2.72	1.90
KENTUCKY																
ASHLAND 180080002 A01	26	0.50	0.90	1.40	1.90	2.50	2.60	2.80	3.20	3.30	4.70	7.60	2.71	1.50	2.31	1.84
BOWLING GREEN 180320001 A01	21	0.20	0.40	1.80	1.90	2.10	2.20	2.50	2.60	2.90	3.20	6.70	2.35	1.33	1.91	2.17
COVINGTON 180600001 A01	25	0.50	1.70	2.00	2.50	2.70	2.80	3.00	3.60	3.90	4.30	7.70	3.02	1.38	2.72	1.67
LEXINGTON 182300001 A01	25	0.20	0.60	0.80	1.30	1.60	2.10	2.20	2.70	4.10	4.50	8.60	2.44	1.86	1.80	2.36
LOUISIANA																
BATON ROUGE 190280001 A01	26	0.10	0.90	1.20	1.20	1.70	2.00	2.60	2.70	3.10	4.50	6.60	2.36	1.51	1.85	2.29
NEW ORLEANS 192020002 A01	26	1.90	2.00	2.10	2.40	3.10	3.50	3.80	4.20	4.30	5.70	13.80	3.85	2.37	3.42	1.59
SHREVEPORT 192740001 A01	24	0.20	1.20	1.60	1.70	1.80	2.00	2.20	2.30	3.00	3.10	3.60	2.11	0.80	1.89	1.78
MAINE																
PORTLAND 200980002 A01	26	0.10	0.20	0.30	0.50	0.50	0.70	1.10	2.00	2.20	2.60	3.10	1.17	0.98	0.77	2.75
MARYLAND																
BALTIMORE 210120001 A01	25	0.80	2.10	2.40	2.60	2.70	2.90	3.20	3.70	4.10	6.60	13.60	3.71	2.49	3.21	1.69
MASSACHUSETTS																
FALL RIVER 220580002 A01	24	0.20	0.40	0.80	1.10	1.10	1.30	2.00	2.30	3.10	4.20	6.30	1.99	1.57	1.44	2.39
SPRINGFIELD 222160002 A01	25	0.30	0.30	0.40	0.50	0.60	1.00	1.00	1.30	2.00	2.80	3.30	1.18	0.92	0.88	2.20
WORCHESTER 222640001 A01	23	0.20	0.60	0.80	0.90	1.10	1.80	2.10	2.70	2.80	3.30	4.00	1.81	1.12	1.43	2.16
MICHIGAN																
DETROIT 231160001 A01	26	0.60	1.60	2.50	3.20	3.70	4.00	4.70	5.70	7.00	7.20	9.60	4.45	2.23	3.80	1.89
FLINT 231580001 A01	25	0.60	1.10	1.30	1.90	2.00	2.40	2.60	3.30	3.80	4.50	6.30	2.67	1.45	2.30	1.79
GRAND RAPIDS 231820001 A01	25	1.00	1.60	1.80	2.20	2.50	2.70	3.00	3.70	3.80	4.80	10.60	3.23	1.94	2.84	1.65
LANSING 232840001 A01	26	0.30	0.70	1.10	1.40	1.90	3.00	3.40	4.30	4.50	6.50	7.90	3.09	2.11	2.30	2.39
SAGINAW 234760001 A01	25	0.20	0.70	0.80	1.50	2.20	2.60	3.00	3.30	3.70	4.40	5.00	2.52	1.38	2.02	2.20
TRENTON 235120001 A01	26	1.00	1.40	2.20	2.30	2.90	3.20	4.20	4.60	5.00	5.70	7.50	3.62	1.66	3.23	1.67
MINNESOTA																
DULUTH 241040001 A01	26	0.30	0.50	0.60	0.90	1.00	1.20	1.30	1.90	2.10	3.00	6.70	1.65	1.41	1.25	2.12
MINNEAPOLIS 242260001 A01	26	0.70	0.90	1.30	1.70	2.20	2.60	3.00	3.20	4.20	4.50	7.70	2.77	1.59	2.34	1.85
MOORHEAD 242320001 A01	25	0.30	0.70	0.90	1.00	1.00	1.50	1.70	2.00	3.40	4.30	5.10	2.00	1.42	1.56	2.10
ST PAUL 243900001 A01	26	0.40	0.50	1.10	1.40	1.70	1.80	2.90	3.30	3.70	5.80	6.40	2.57	1.78	1.96	2.23
MISSOURI																
KANSAS CITY 262380002 A01	21	0.20	0.50	1.50	1.80	2.30	2.70	3.20	3.50	3.90	5.30	8.40	3.04	2.12	2.30	2.38
NEBRASKA																
LINCOLN 281560002 A01	26	0.10	0.10	0.30	0.70	1.10	1.20	1.40	1.80	2.40	3.20	10.80	1.71	2.12	0.96	3.31
OMAHA 281880001 A01	26	0.30	0.50	0.70	1.10	1.40	1.70	2.30	2.50	3.40	5.80	12.40	2.51	2.62	1.67	2.53
NEW HAMPSHIRE																
CONCORD 300120001 A01	26	0.10	0.20	0.30	0.40	0.50	0.60	0.80	1.40	1.80	2.40	4.40	1.05	1.03	0.70	2.52
NEW JERSEY																
BURLINGTON CO 310660002 A01	26	0.0	0.80	1.90	1.60	2.00	2.10	2.80	3.30	3.50	4.10	6.40	2.48	1.42	1.89	2.81

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
NEW JERSEY																
CAMDEN 310720001 A01	26	0.10	0.20	1.20	1.30	2.10	2.40	2.70	3.40	4.10	4.80	6.20	2.56	1.74	1.73	3.03
ELIZABETH 311300002 A01	25	0.0	0.0	0.20	1.00	1.00	1.40	2.10	2.60	3.70	5.30	5.90	2.09	1.87	0.97	5.48
GLASSBORO 311700001 A01	26	0.0	0.0	0.90	0.60	1.10	1.20	1.80	3.00	4.20	5.30	7.30	2.17	2.13	0.84	6.77
JERSEY CITY 312920001 A01	25	0.20	0.50	0.80	1.40	1.60	1.80	2.00	2.70	3.50	4.30	5.10	2.13	1.49	1.61	2.39
NEWARK 313480001 A01	24	0.10	0.50	0.60	1.70	2.10	2.30	2.70	3.00	3.60	4.50	11.10	2.77	2.43	1.84	2.95
PATERSON 314140001 A01	23	0.0	0.0	0.40	0.80	1.50	1.70	2.30	2.90	3.50	4.90	7.30	2.21	1.93	1.02	5.72
PERTH AMBOY 314220001 A01	25	0.20	0.40	0.90	1.20	1.40	1.70	2.10	2.30	2.50	3.00	3.80	1.81	0.99	1.47	2.14
TRENTON 315400001 A01	24	0.30	1.10	1.20	1.20	1.60	1.80	2.10	2.60	3.90	4.30	8.40	2.42	1.88	1.87	2.14
NEW MEXICO																
ALBUQUERQUE 320040001 A01	26	0.20	0.60	1.00	1.20	1.30	1.30	1.50	1.80	2.00	2.20	2.90	1.44	0.63	1.26	1.83
NEW YORK																
BUFFALO 330660001 A01	24	0.60	1.30	1.50	2.30	2.40	2.70	3.20	3.30	4.30	5.00	6.60	3.03	1.57	2.63	1.78
NEW YORK CITY 334680001 A01	25	1.10	1.30	1.60	1.90	2.00	2.30	2.70	2.90	3.40	5.40	7.10	2.74	1.49	2.43	1.63
NIAGARA FALLS 334740001 A01	24	0.20	0.60	1.40	1.60	2.00	2.40	2.60	3.10	3.50	4.20	6.60	2.53	1.54	2.02	2.17
ROCHESTER 335760001 A01	26	0.90	1.40	2.00	2.10	2.40	3.10	4.10	5.60	5.90	6.30	9.10	3.74	2.10	3.19	1.81
SYRACUSE 336620001 A01	25	0.60	1.20	2.00	2.30	2.40	2.70	3.00	3.30	3.50	4.40	5.10	2.82	1.16	2.55	1.65
UTICA 336880001 A01	25	0.50	0.60	0.80	1.00	1.10	1.30	1.40	1.80	2.40	3.20	5.00	1.72	1.21	1.41	1.86
YONKERS 337620001 A01	26	0.60	0.90	1.80	1.80	1.90	2.00	2.00	2.50	3.40	4.20	6.70	2.40	1.37	2.08	1.74
NORTH CAROLINA																
CHARLOTTE 340700001 A01	26	0.10	0.70	0.80	1.10	1.20	1.30	1.70	2.20	2.60	3.00	3.80	1.67	0.99	1.35	2.16
DURHAM 341160001 A01	24	0.20	0.70	0.80	1.20	1.40	1.50	1.60	2.10	2.30	2.40	2.90	1.57	0.70	1.38	1.82
GREENSBORO 341740001 A01	26	0.0	0.10	0.60	0.80	1.00	1.50	1.90	2.70	2.90	3.30	3.70	1.63	1.17	0.95	4.15
WINSTON-SALEM 344460002 A01	24	0.10	0.40	0.50	1.80	2.00	2.10	2.50	2.60	3.40	4.20	6.60	2.33	1.60	1.61	3.00
NORTH DAKOTA																
BISMARCK 350100001 A01	26	0.30	0.40	0.60	0.60	0.70	0.70	0.80	1.00	1.60	1.90	3.00	1.00	0.65	0.84	1.79
OHIO																
CANTON 361000001 A01	25	0.30	0.60	1.00	1.30	1.70	2.20	2.40	2.90	3.60	6.20	9.80	2.74	2.33	1.99	2.36
CINCINNATI 361220001 A01	24	0.40	1.80	2.20	2.40	2.60	3.10	4.00	4.30	5.30	5.80	6.60	3.48	1.65	3.00	1.88
CLEVELAND 361300001 A01	26	0.30	0.60	1.50	1.70	2.40	2.60	3.10	3.50	4.10	4.60	9.00	2.94	1.97	2.31	2.17
COLUMBUS 361460001 A01	26	0.60	1.40	2.00	2.60	3.30	3.30	3.90	4.30	5.00	6.20	8.70	3.58	1.87	3.04	1.91
DAYTON 361640001 A01	25	0.60	1.00	1.50	2.10	2.10	2.20	2.60	3.60	4.70	5.80	10.40	3.07	2.19	2.47	1.99
TOLEDO 366600001 A01	25	0.40	1.00	1.60	2.20	2.30	3.00	4.00	5.30	5.40	6.50	8.10	3.56	2.14	2.84	2.12
YOUNGSTOWN 367760001 A01	25	0.70	1.80	2.00	2.30	2.90	3.20	3.80	4.40	5.50	6.00	8.00	3.69	1.89	3.20	1.78
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.90	1.10	1.50	1.90	1.90	2.20	2.30	3.20	3.80	4.40	8.90	2.70	1.73	2.31	1.74
TULSA 373000001 A01	22	0.30	0.80	1.30	1.50	1.70	2.00	2.50	2.90	3.10	4.30	6.40	2.39	1.61	1.91	2.07

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OREGON																
PORTLAND 381460001 A01	22	1.40	1.90	2.40	2.50	2.80	3.80	4.70	5.20	5.90	10.00	13.00	4.81	3.321	3.94	1.90
PENNSYLVANIA																
ALLENTOWN 390120001 A01	26	0.40	3.10	3.40	4.10	4.70	4.90	5.50	6.00	7.20	10.40	19.20	5.89	3.921	4.76	2.11
ALTOONA 390140001 A01	25	1.40	2.60	2.80	4.00	4.30	5.30	6.60	8.50	9.30	9.70	23.00	6.62	4.721	5.36	1.95
BETHLEHEM 39E760002 A01	26	0.90	1.20	1.90	2.20	2.50	2.60	3.20	4.10	4.60	8.20	10.00	3.56	2.40	2.93	1.89
ERIE 393060002 A01	26	0.20	0.60	0.90	1.20	1.70	2.20	2.50	2.90	3.70	4.70	5.10	2.31	1.48	1.77	2.28
HARRISBURG 393880001 A01	26	1.10	1.50	1.80	2.00	2.40	2.80	3.50	4.10	4.70	6.30	10.80	3.50	2.21	2.99	1.76
JOHNSTOWN 394460001 A01	23	1.10	1.70	2.00	2.50	3.00	3.10	3.50	3.60	4.80	5.60	7.80	3.49	1.71	3.12	1.63
PHILADELPHIA 397140001 A01	24	0.70	2.30	2.60	3.00	3.10	3.30	3.80	4.10	4.90	5.40	6.40	3.63	1.321	3.35	1.57
PITTSBURGH 397260001 A01	24	0.80	1.10	1.30	2.60	2.60	2.70	2.70	3.20	4.40	5.30	7.00	3.00	1.66	2.56	1.82
READING 397620001 A01	26	0.60	0.90	1.50	2.00	2.40	2.70	3.90	4.10	4.80	5.30	16.70	3.56	3.15	2.72	2.12
SCRANTON 398040001 A01	25	0.20	0.70	1.10	1.30	1.70	2.00	2.80	3.20	3.90	4.20	5.30	2.44	1.45	1.94	2.17
WARMINSTER 39[illegible]60001 A01	25	0.30	0.50	0.60	0.90	1.00	1.30	1.40	2.10	2.70	3.40	5.80	1.60	1.07	1.27	2.04
WILKES-BARRE 399430001 A01	23	0.20	0.40	0.90	1.20	1.40	1.60	2.00	2.10	3.90	4.90	6.20	2.17	1.64	1.57	2.47
YORK 399560001 A01	26	0.10	1.50	2.00	2.30	3.00	3.30	3.80	4.30	5.10	6.50	7.40	3.59	1.83	2.93	2.31
PUERTO RICO																
BAYAMON 400380002 A01	26	0.10	0.90	1.10	1.20	1.30	1.40	1.50	1.70	2.10	2.30	2.40	1.47	0.55	1.31	1.83
CATANO 400560002 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									3.00				
GUAYANILLA 401080002 A01	25	0.30	0.50	0.70	0.80	0.90	1.10	1.20	1.40	1.60	2.30	2.60	1.19	0.61	1.04	1.73
PONCE 401920002 A01	25	0.30	0.50	0.60	0.60	0.60	0.90	1.00	1.10	1.40	1.80	2.30	1.01	0.53	0.89	1.67
SAN JUAN 402140C01 A01	24	0.50	0.60	0.60	0.80	0.90	1.00	1.20	1.30	1.70	1.80	2.90	1.15	0.59	1.03	1.62
RHODE ISLAND																
EAST PROVIDENCE 410120001 A01	24	0.30	0.50	0.60	0.80	1.00	1.10	1.30	1.50	1.70	2.30	3.60	1.29	0.83	1.07	1.90
PROVIDENCE 41C300001 A01	26	0.10	0.20	0.50	0.60	0.80	0.90	1.20	1.60	1.90	2.60	3.30	1.21	0.88	0.87	2.53
SOUTH CAROLINA																
GREENVILLE 421140001 A01	26	0.0	0.20	0.50	0.60	1.50	1.80	2.70	3.00	3.20	3.60	5.10	1.96	1.48	1.17	3.74
TENNESSEE																
CHATTANOOGA 440380001 A01	26	0.60	1.00	2.00	2.20	2.70	2.80	3.10	3.70	3.90	4.80	8.10	3.04	1.56	2.64	1.80
MEMPHIS 442340C01 A01	26	1.20	1.60	1.70	1.90	2.30	2.60	3.00	3.30	3.60	4.40	9.90	2.78	1.14	2.57	1.51
NASHVILLE 442540001 A01	25	0.70	0.80	1.10	1.50	1.60	1.70	2.60	2.70	3.50	3.70	4.50	2.20	1.11	1.92	1.74
TEXAS																
DALLAS 45131C0C2 A01	26	1.40	1.50	1.80	1.80	2.10	2.30	2.60	2.80	3.30	3.80	5.10	2.55	0.95	2.39	1.43
EL PASO 451700002 A01	26	0.80	1.00	1.30	1.40	1.80	1.80	2.10	2.10	2.30	3.30	7.00	2.13	1.40	1.86	1.63
FORT WORTH 45188C0C1 A01	26	1.20	1.30	1.70	1.80	2.00	2.00	2.40	2.60	3.10	3.70	8.00	2.50	1.36	2.26	1.52
HOUSTON 452540001 A01	24	1.80	2.00	2.50	2.70	2.90	3.10	3.40	3.40	5.20	6.10	7.30	3.55	1.54	3.29	1.47
PASADENA 45406C0J2 A01	26	1.00	1.50	1.70	2.10	2.30	2.60	2.80	2.90	3.60	4.50	5.50	2.71	1.12	2.50	1.51

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
SAN ANTONIO																
484570001 A01	26	0.60	1.10	1.20	1.40	1.60	1.80	2.00	2.40	2.70	3.30	4.60	2.02	0.91	1.83	1.59
UTAH																
OGDEN																
488080001 A01	26	0.50	0.70	1.40	1.60	1.80	1.80	2.00	2.20	3.90	5.20	8.20	2.48	1.88	1.96	2.02
SALT LAKE CITY																
488920001 A01	25	0.60	1.10	1.20	1.70	2.00	2.30	2.90	2.80	3.10	3.40	4.30	2.31	0.99	2.10	1.61
VERMONT																
BURLINGTON																
470140001 A01	23	0.30	0.40	0.50	0.60	0.90	1.00	1.20	1.40	1.90	2.10	4.70	1.30	1.07	0.99	2.11
VIRGINIA																
DANVILLE																
480920001 A01	25	0.10	0.60	0.70	1.00	1.20	2.40	2.70	2.90	3.00	3.90	9.00	2.14	1.39	1.97	2.54
HAMPTON																
481440001 A01	25	0.10	0.20	0.30	1.20	1.60	1.80	2.00	2.50	2.60	3.30	4.00	1.84	1.15	1.25	3.06
LYNCHBURG																
481840001 A01	26	0.30	0.80	1.60	1.70	2.10	2.20	2.40	2.80	3.00	4.20	6.40	2.39	1.29	2.03	1.91
NEWPORT NEWS																
482120001 A01	26	0.10	0.30	0.60	1.20	1.50	1.90	2.00	2.30	2.40	4.10	4.60	1.86	1.22	1.36	2.60
NORFOLK																
482140001 A01	26	0.40	0.70	1.40	1.50	2.00	2.10	2.60	2.60	3.20	4.30	5.70	2.35	1.40	1.93	1.98
PORTSMOUTH																
482440001 A01	26	0.60	1.00	1.10	1.80	2.40	2.50	3.00	3.40	3.80	4.50	5.70	2.65	1.41	2.25	1.89
RICHMOND																
482660002 A01	24	0.20	0.50	0.70	1.40	1.60	1.90	2.10	2.10	2.30	3.10	3.40	1.74	0.89	1.43	2.10
ROANOKE																
482760001 A01	25	0.60	1.00	1.30	1.60	1.80	2.20	2.50	2.80	2.90	3.40	4.90	2.24	1.00	2.01	1.64
WASHINGTON																
SEATTLE																
491840001 A01	25	0.30	0.50	0.80	1.10	1.20	1.80	1.80	2.00	2.50	3.60	5.60	1.98	1.38	1.46	2.13
SPOKANE																
492940001 A01	26	0.20	0.20	0.60	0.60	0.70	0.80	1.00	1.40	1.60	1.80	2.40	1.02	0.60	0.83	2.01
TACOMA																
492140001 A01	26	0.30	0.40	0.70	1.00	1.30	1.90	2.60	3.00	3.30	3.90	4.10	2.04	1.31	1.54	2.32
WEST VIRGINIA																
CHARLESTON																
500280001 A01	26	0.30	0.50	1.00	1.10	1.40	1.60	1.80	2.10	2.80	3.40	4.90	1.81	1.10	1.48	2.00
SOUTH CHARLESTON																
501760001 A01	26	0.40	0.60	0.90	1.10	1.30	1.40	1.70	2.10	2.70	3.60	5.10	1.82	1.16	1.50	1.91
WISCONSIN																
EAU CLAIRE																
510840002 A01	24	0.20	0.50	0.70	0.90	1.00	1.30	1.80	1.90	3.50	3.70	5.50	1.86	1.45	1.39	2.25
KENOSHA																
511540001 A01	24	0.20	0.50	0.90	1.70	1.80	2.10	2.80	3.30	4.70	4.80	5.60	2.59	1.62	1.97	2.38
MADISON																
511860001 A01	27	0.20	0.60	1.10	1.30	1.90	2.10	2.50	2.80	3.90	4.20	5.70	2.37	1.46	1.84	2.29
MILWAUKEE																
512200001 A01	26	0.20	0.50	1.50	2.10	2.60	2.80	3.70	4.60	5.20	6.00	8.70	3.32	2.20	2.42	2.57
RACINE																
512880001 A01	24	0.30	0.70	0.70	1.30	2.10	2.40	3.10	3.50	3.80	4.20	5.20	2.46	1.47	1.93	2.20
SUPERIOR																
513480001 A01	24	0.30	0.40	0.50	0.60	0.70	0.80	1.10	1.80	2.50	3.10	3.20	1.35	1.02	1.00	2.21
WYOMING																
CASPER																
520120001 A01	26	0.10	0.10	0.20	0.30	0.30	0.40	0.50	0.70	0.80	1.00	1.30	0.51	0.34	0.40	2.11
CHEYENNE																
520140001 A01	23	0.0	0.10	0.20	0.40	0.40	0.60	0.80	0.90	1.10	1.40	3.30	0.76	0.73	0.48	3.07

Table 5-4. NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P 040370001 A03	25	0.10	0.10	0.10	0.40	0.40	0.60	0.60	0.70	0.70	1.30	3.60	0.66	0.70	0.44	2.53
ARKANSAS																
MONTGOMERY CO 051760001 A03	22	0.10	0.10	0.20	0.60	0.60	0.80	1.30	1.40	1.40	1.80	2.20	0.95	0.66	0.65	2.88
CALIFORNIA																
HUMBOLDT CO 053300001 A03	23	0.10	0.10	0.20	0.20	0.40	0.50	0.50	0.70	0.90	1.00	2.50	0.61	0.55	0.43	2.40
COLORADO																
MESA VERDE NAT PAR 061530002 A03	25	0.10	0.30	0.30	0.40	0.50	0.50	0.60	0.80	1.00	1.30	1.40	0.65	0.40	0.52	2.05
FLORIDA																
HARDEE CO 101680001 A03	26	0.0	0.50	0.60	0.80	1.00	1.10	1.20	1.30	1.50	1.70	1.80	1.06	0.47	0.88	2.33
IDAHO																
BUTTE CO 130340001 A03	26	0.10	0.10	0.20	0.20	0.30	0.30	0.30	0.30	0.40	0.80	0.80	0.32	0.21	0.27	1.87
INDIANA																
MONROE CO 152800001 A03	24	0.0	0.10	0.20	0.50	0.90	0.60	1.00	1.60	2.30	3.20	9.60	1.48	2.03	0.66	4.45
PARKE CO 155260001 A03	25	0.10	0.30	0.40	0.80	1.00	1.30	1.50	1.50	1.60	2.40	2.80	1.22	0.76	0.95	2.28
MAINE																
ACADIA NAT PARK 200010001 A03	26	0.0	0.30	0.60	0.70	1.20	1.20	1.30	1.70	2.00	2.50	4.90	1.40	1.05	0.99	2.88
MISSOURI																
SHANNON CO 264480002 A03	25	0.10	0.20	0.50	0.70	0.70	0.70	0.80	1.10	1.40	2.10	2.60	0.96	0.69	0.74	2.32
NEBRASKA																
THOMAS CO 282480001 A03	22	0.10	0.10	0.10	0.20	0.20	0.50	0.70	1.00	1.10	1.60	3.50	0.75	0.81	0.43	3.04
NEVADA																
WHITE PINE CO 290560001 A03	24	0.0	0.0	0.10	0.20	0.20	0.40	0.50	0.50	0.60	0.70	1.40	0.40	0.32	0.26	3.10
NEW HAMPSHIRE																
COOS CO 300140001 A03	25	0.10	0.20	0.40	0.40	0.60	0.70	0.80	0.90	1.10	1.60	2.10	0.76	0.48	0.62	2.01
NEW YORK																
JEFFERSON CO 333340001 A03	26	0.10	0.50	0.60	0.70	1.00	1.10	1.50	1.80	3.10	3.60	4.50	1.60	1.23	1.16	2.48
NORTH CAROLINA																
CAPE HATTERAS NAT 340990001 A03	24	1.30	1.70	1.80	2.40	2.50	2.80	3.40	3.90	4.50	5.70	8.70	3.35	1.78	2.97	1.64
OKLAHOMA																
CHEROKEE CO 370480001 A03	24	0.10	0.60	0.90	1.10	1.10	1.50	1.90	2.00	2.60	5.10	7.10	1.98	1.72	1.39	2.58
OREGON																
CURRY CO 380440001 A03	24	0.0	0.10	0.10	0.30	0.40	0.50	0.60	0.70	0.80	1.30	2.30	0.58	0.52	0.36	3.20
PENNSYLVANIA																
CLARION CO 391760001 A03	26	0.10	0.20	0.30	0.50	0.70	0.90	1.10	1.40	1.90	2.60	3.80	1.14	0.97	0.78	2.62
RHODE ISLAND																
WASHINGTON CO 410380002 A03	24	0.0	0.20	0.50	0.70	1.00	1.10	1.10	1.10	1.90	2.20	3.40	1.19	0.84	0.85	2.82
TENNESSEE																
CUMBERLAND CO 440680001 A03	22	0.10	0.70	1.20	1.50	1.80	1.80	2.20	2.80	3.90	4.20	7.10	2.34	1.63	1.76	2.46
TEXAS																
MATAGORDA CO 455530001 A03	25	0.20	0.50	0.60	0.90	1.10	1.30	1.50	1.70	1.80	2.60	3.60	1.39	0.82	1.15	1.96
TOM GREEN CO 455200001 A03	25	0.40	0.60	0.90	1.10	1.10	1.50	1.60	1.70	2.00	4.60	5.10	1.78	1.29	1.45	1.90
VERMONT																
ORANGE CO 470360001 A03	26	0.10	0.10	0.20	0.20	0.40	0.50	0.90	1.00	1.10	1.40	1.90	0.71	0.53	0.50	2.55
VIRGINIA																
SHENANDOAH NAT PAR 482890001 A03	25	0.0	0.0	0.10	0.20	0.40	0.60	0.90	1.10	1.30	1.60	1.70	0.72	0.57	0.40	3.96
WYTHE CO 485440001 A03	26	0.10	0.10	0.40	0.60	0.90	1.00	1.10	1.70	1.80	2.10	3.00	1.13	0.77	0.81	2.61

Table 5-4 (continued). NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
WASHINGTON																
KING CO																
490190002 AD3	24	0.0	0.20	0.30	0.40	0.40	0.90	1.00	1.20	1.90	2.10	4.20	1.09	0.961	0.62	3.58

SECTION 6. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: SULFATE

Table 6-1. SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ALABAMA																
GADSDEN 011480001 A01	26	0.5	1.8	2.6	3.7	4.3	4.6	5.1	6.8	8.0	10.8	16.9	5.5	3.63	4.4	2.10
HUNTSVILLE 011860001 A01	26	2.7	3.8	4.1	4.5	5.7	6.2	7.4	8.7	9.9	13.9	24.8	7.7	4.88	6.6	1.73
MOBILE 012580001 A01	22	3.3	4.8	5.6	6.5	8.6	9.8	10.8	13.2	15.5	16.8	27.4	10.8	5.93	9.4	1.75
MONTGOMERY 012460001 A01	26	2.1	3.2	4.7	5.1	5.7	5.8	8.3	10.0	11.9	14.0	29.1	8.3	5.53	7.0	1.80
ALASKA																
ANCHORAGE 020060003 A01	25	1.0	1.0	1.2	1.4	1.4	1.5	1.7	1.9	2.4	2.8	3.2	1.8	0.69	1.7	1.44
FAIRBANKS 020140001 A01	24	1.2	1.4	1.5	1.9	2.0	2.2	2.3	2.8	3.1	3.5	3.5	2.3	0.72	2.2	1.38
ARIZONA																
PHOENIX 030600002 A01	26	1.1	1.7	2.8	2.4	3.8	4.0	5.1	6.7	8.7	10.5	13.3	5.2	3.38	4.2	2.01
TUCSON 030860001 A01	26	1.9	2.8	5.1	5.6	6.4	7.1	7.5	9.1	10.5	14.1	16.4	7.8	3.68	6.9	1.71
ARKANSAS																
LITTLE ROCK 041440001 A01	26	1.4	2.7	3.1	4.3	4.5	6.1	7.2	8.2	10.6	11.4	12.8	6.5	3.41	5.6	1.82
TEXARKANA 042960001 A01	26	2.7	3.1	4.4	5.3	6.2	6.7	8.4	11.1	12.0	15.0	17.1	8.2	4.37	7.1	1.77
CALIFORNIA																
ANAHEIM 050230001 A01	25	1.8	2.8	3.6	4.2	4.8	5.8	7.6	12.0	13.7	20.0	40.1	9.7	8.85	7.0	2.23
BURBANK 050900001 A01	24	1.5	2.3	2.6	3.5	3.7	4.8	6.2	10.6	13.2	19.6	49.7	9.1	10.59	5.9	2.48
FRESNO 052800001 A01	25	0.9	2.0	2.7	3.2	4.2	4.7	5.1	6.0	6.1	7.8	13.7	5.0	2.79	4.3	1.82
GLENDALE 052940001 A01	26	1.6	3.0	3.2	5.2	6.0	8.4	11.3	15.0	16.2	18.7	42.7	11.2	8.98	8.4	2.24
LONG BEACH 054100001 A01	24	3.5	5.0	7.4	9.4	9.9	12.9	15.5	17.1	20.1	24.0	41.8	14.4	8.47	12.3	1.80
LOS ANGELES 054190001 A01	24	2.4	3.8	4.9	6.8	7.6	8.3	12.2	16.4	18.7	19.6	25.2	11.2	6.76	9.2	1.99
OAKLAND 055500001 A01	26	1.6	1.7	3.4	4.4	5.0	5.3	5.9	7.9	11.7	19.4	21.8	7.4	5.57	5.8	2.06
ONTARIO 055360001 A01	25	2.1	3.5	4.1	6.6	9.2	12.1	12.5	13.8	13.9	25.2	35.3	11.8	8.19	9.4	2.06
RIVERSIDE 056400001 A01	26	1.8	4.1	8.5	9.0	11.0	11.8	14.8	16.8	19.7	23.3	28.2	13.1	6.76	11.1	1.92
SACRAMENTO 056580001 A01	25	0.7	1.2	2.4	2.8	3.1	4.6	5.0	6.8	8.2	9.0	13.6	5.1	3.26	4.0	2.18
SAN BERNARDINO 056660001 A01	26	1.1	7.3	7.7	8.0	9.9	11.7	15.3	18.5	21.5	30.3	31.7	14.5	8.48	11.7	2.12
SAN DIEGO 056800001 A01	26	3.1	3.6	4.6	5.1	5.4	5.8	7.7	9.3	11.8	12.8	29.6	8.3	5.80	7.0	1.73
SAN FRANCISCO 056860001 A01	25	2.4	3.1	3.8	4.7	4.8	5.6	6.0	6.2	8.7	13.8	17.0	6.7	3.90	5.9	1.66
SAN JOSE 056980001 A01	26	0.9	1.7	2.0	2.5	3.1	3.3	3.3	4.0	4.7	5.7	7.6	3.4	1.59	3.1	1.66
SANTA ANA 057180001 A01	26	3.3	3.9	4.8	5.1	5.7	6.1	8.6	11.5	12.9	22.0	26.6	9.8	6.99	8.0	1.87
TORRANCE 058260001 A01	25	2.1	3.8	4.1	5.4	6.1	6.6	9.5	11.6	14.2	27.5	32.6	10.7	8.71	8.1	2.12
COLORADO																
DENVER 060580001 A01	26	5.1	10.0	10.5	10.6	11.7	11.8	12.3	13.2	13.5	15.2	29.5	12.4	4.14	11.9	1.34
CONNECTICUT																
BRIDGEPORT 070060001 A01	25	5.3	8.2	9.4	10.5	11.0	11.3	11.7	13.3	14.0	15.8	21.4	11.9	3.32	11.5	1.33
HARTFORD 070420001 A01	25	6.7	8.0	9.2	10.2	10.9	11.4	11.6	14.6	15.2	16.0	20.4	12.1	3.30	11.7	1.31
NEW HAVEN 070700001 A01	26	7.5	10.5	12.7	13.9	15.8	16.8	19.2	21.4	27.5	35.2	40.2	20.0	8.99	18.2	1.57

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
CONNECTICUT																
WATERBURY																
071240001 A01	26	6.8	9.5	10.4	10.6	11.9	12.9	13.7	15.5	16.2	19.6	24.5	13.6	4.21	13.1	1.35
DELAWARE																
WILMINGTON																
080260001 A01	23	10.0	11.4	12.7	14.3	15.9	17.5	19.0	19.7	26.1	28.2	42.0	19.2	7.79	17.9	1.49
DIST COLUMBIA																
WASHINGTON																
090020001 A01	26	6.2	7.5	10.2	11.4	12.8	13.1	13.8	14.8	16.1	19.8	33.9	13.9	5.46	13.1	1.43
FLORIDA																
JACKSONVILLE																
101960002 A01	24	4.8	5.9	7.2	11.4	12.8	12.1	13.1	15.9	21.2	21.8	26.7	13.6	6.84	12.3	1.61
MIAMI																
102700001 A01	26	2.2	5.3	9.2	10.6	11.2	12.4	12.8	13.4	17.3	20.7	21.9	12.7	5.28	11.4	1.69
ST PETERSBURG																
103980002 A01	26	2.2	2.8	4.5	5.0	6.4	6.8	7.9	9.9	10.4	11.1	14.0	7.4	3.16	6.7	1.65
TAMPA																
104360002 A01	26	2.8	5.5	6.4	6.9	7.6	9.2	10.8	12.9	13.7	15.2	16.7	9.8	3.96	9.0	1.58
GEORGIA																
ATLANTA																
110200001 A01	26	3.2	5.0	5.5	5.9	7.4	7.4	7.8	10.2	11.7	14.0	17.8	8.4	3.54	7.8	1.49
COLUMBUS																
111280001 A01	24	2.3	3.5	4.1	4.4	5.6	6.3	6.8	7.1	8.9	11.6	14.7	6.8	3.77	6.0	1.84
SAVANNAH																
114900001 A01	25	4.4	5.9	7.6	12.9	14.1	17.1	17.9	21.2	32.3	61.2	74.1	23.0	19.94	17.0	2.19
HAWAII																
HONOLULU																
120120001 A01	26	2.8	3.6	3.8	4.0	4.2	4.6	4.6	4.8	5.1	5.8	7.1	4.5	0.91	4.4	1.22
IDAHO																
BOISE CITY																
130220001 A01	25	1.5	1.6	1.6	1.8	1.9	2.3	2.6	2.8	4.0	4.6	10.8	2.9	1.97	2.5	1.63
ILLINOIS																
CHICAGO																
141220001 A01	26	8.4	10.1	12.2	13.1	14.1	15.8	17.4	20.1	24.0	38.7	44.9	18.8	9.12	17.0	1.54
EAST ST LOUIS																
142120001 A01	25	2.1	6.9	7.8	9.3	9.3	9.9	10.1	10.4	13.9	21.6	36.4	11.9	7.06	10.4	1.73
JOLIET																
143760001 A01	23	4.6	5.0	6.1	8.1	9.5	12.4	12.9	13.5	20.0	25.3	32.0	13.2	8.07	11.2	1.80
NORTH CHICAGO																
145620002 A01	26	3.5	4.7	6.0	6.7	8.4	10.4	12.8	16.9	18.1	20.8	47.4	12.9	9.31	10.5	1.90
PEORIA																
146080001 A01	26	5.4	8.1	9.9	11.9	14.0	15.3	16.4	20.0	21.2	23.6	25.5	15.5	5.91	14.3	1.55
ROCKFORD																
146660001 A01	24	2.6	4.6	5.5	6.9	7.0	7.6	8.8	10.0	12.3	14.7	40.8	10.0	7.63	8.4	1.75
SPRINGFIELD																
147280001 A01	25	1.8	3.4	5.5	6.4	7.6	8.3	9.8	10.3	12.5	13.0	26.5	9.4	5.33	8.1	1.78
INDIANA																
EAST CHICAGO																
151180001 A01	25	1.5	6.2	6.8	10.5	11.1	14.0	16.4	17.8	20.3	25.7	37.8	14.8	8.29	12.3	2.01
EVANSVILLE																
151300001 A01	26	3.6	5.0	6.9	8.9	9.9	10.4	11.6	12.4	17.6	21.6	30.4	12.4	6.87	10.9	1.70
FORT WAYNE																
151380001 A01	25	4.5	5.3	6.3	7.2	7.2	9.1	9.3	11.7	13.1	16.6	26.3	10.1	4.97	9.2	1.54
GARY																
151520001 A01	23	3.9	7.5	9.7	9.9	10.5	11.0	11.2	13.0	21.5	22.4	45.9	14.2	8.80	12.3	1.69
HAMMOND																
151780001 A01	25	3.3	5.5	8.1	9.2	10.0	14.1	15.4	16.0	18.0	32.6	49.1	15.6	10.81	12.7	1.94
INDIANAPOLIS																
152040001 A01	25	3.3	3.9	5.0	6.9	8.9	11.3	12.7	15.5	17.2	22.3	24.8	11.8	6.45	10.0	1.84
NEW ALBANY																
152980002 A01	23	2.2	4.7	6.0	7.0	11.2	12.6	13.2	15.6	19.0	21.8	30.7	12.7	7.17	10.6	1.95
SOUTH BEND																
153880002 A01	25	3.1	3.2	3.9	5.4	5.6	7.0	7.6	10.8	14.6	19.8	26.4	9.4	6.41	7.6	1.90
TERRE HAUTE																
154080001 A01	23	5.1	5.8	7.1	8.7	9.0	10.9	12.2	12.5	15.8	18.1	34.4	11.9	6.29	10.7	1.57
IOWA																
DAVENPORT																
161060001 A01	26	2.2	2.7	4.1	4.6	6.5	10.3	12.9	15.7	17.7	26.5	44.4	12.2	10.18	8.8	2.33

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
IOWA																
DES MOINES 161180001 A01	25	0.9	1.8	3.4	3.9	5.4	6.7	7.3	8.6	9.2	10.6	20.9	6.8	4.24	5.5	2.07
DUBUQUE 161260001 A01	24	2.9	3.7	5.6	7.7	8.8	9.9	10.6	11.4	14.4	15.5	56.6	11.4	10.38	9.2	1.88
KANSAS																
KANSAS CITY 171800002 A01	25	2.4	2.9	3.4	4.7	4.8	5.9	6.5	9.5	10.9	14.8	16.7	7.3	4.24	6.3	1.78
TOPEKA 173560001 A01	26	0.6	1.2	1.7	1.7	2.6	3.0	3.9	5.1	7.5	10.9	17.8	4.6	4.04	3.3	2.28
WICHITA 173740001 A01	26	1.3	1.8	2.3	2.5	3.0	3.2	4.7	5.1	6.7	8.4	9.2	4.3	2.47	3.7	1.77
KENTUCKY																
ASHLAND 180860002 A01	24	4.6	5.4	6.5	9.2	11.9	14.1	21.1	23.4	34.4	48.3	87.4	22.1	19.56	16.0	2.27
COVINGTON 180860001 A01	26	3.4	4.2	5.0	5.6	6.8	9.8	10.1	14.2	15.3	31.2	23.6	10.3	5.91	8.8	1.78
LOUISVILLE 182360001 A01	25	3.5	4.2	6.1	7.2	7.7	10.3	11.5	12.7	18.0	29.6	37.9	12.2	8.21	10.1	1.84
LOUISIANA																
BATON ROUGE 190280001 A01	22	2.7	3.2	3.8	4.4	4.8	6.8	7.0	8.0	9.2	11.8	16.6	6.9	3.89	6.0	1.67
NEW ORLEANS 192020002 A01	25	3.2	4.3	4.7	5.0	5.1	6.2	6.7	9.7	10.6	13.5	14.8	7.5	3.45	6.8	1.56
SHREVEPORT 192740001 A01	25	1.8	3.2	3.4	4.1	4.4	5.9	6.4	7.6	8.2	11.5	14.8	6.3	3.35	5.5	1.72
MARYLAND																
BALTIMORE 210120001 A01	23	2.0	3.8	8.6	9.6	11.9	13.2	14.9	18.6	20.3	20.5	36.8	13.9	7.85	11.5	2.01
MASSACHUSETTS																
BOSTON 220240001 A01	24	6.8	9.1	11.4	11.7	12.3	14.7	16.5	17.1	19.4	25.5	26.8	15.3	5.50	14.4	1.43
FALL RIVER 220580002 A01	25	6.1	7.3	7.8	8.9	10.3	11.8	13.5	15.3	17.0	18.6	21.3	12.4	4.46	11.6	1.45
SPRINGFIELD 222140001 A01	24	0.9	5.9	6.6	7.4	8.2	8.5	9.4	10.1	10.3	12.2	12.7	8.5	2.80	7.7	1.72
WORCHESTER 222640001 A01	24	1.3	6.9	9.8	10.3	10.9	11.2	11.6	12.3	14.6	21.0	46.4	13.0	8.08	11.2	1.81
MICHIGAN																
DEARBORN 231140001 A01	25	4.3	5.0	5.8	7.3	8.4	11.3	15.6	16.6	17.2	21.4	30.8	13.1	7.31	11.2	1.78
DETROIT 231180001 A01	25	3.7	4.9	5.3	7.6	8.3	11.2	13.9	16.0	18.4	26.6	29.4	12.9	7.57	10.9	1.85
FLINT 231580001 A01	23	5.0	7.4	8.5	9.2	11.1	12.2	13.9	14.3	15.6	19.6	24.3	12.6	4.85	11.7	1.49
GRAND RAPIDS 231820001 A01	26	6.0	7.0	8.2	10.2	12.0	12.6	14.0	16.2	17.2	29.3	47.4	15.3	9.27	13.3	1.67
LANSING 232040001 A01	26	0.0	2.7	4.2	4.8	5.0	6.9	8.8	11.7	12.9	13.8	23.1	8.5	5.30	6.6	2.43
SAGINAW 234760001 A01	26	3.0	3.4	4.8	5.8	6.3	6.7	7.3	10.8	11.9	17.4	23.3	8.5	4.95	7.3	1.71
TRENTON 235120001 A01	23	1.4	5.0	6.3	7.8	9.0	9.7	10.7	11.5	15.2	17.5	25.9	10.9	6.06	9.2	1.93
MINNESOTA																
DULUTH 241040001 A01	25	2.3	3.1	3.5	3.7	4.3	4.9	5.2	5.5	8.2	11.0	28.0	6.4	5.29	5.4	1.74
MINNEAPOLIS 242260001 A01	25	0.7	2.0	2.6	3.6	4.0	5.6	7.1	9.8	10.2	12.7	16.6	6.7	4.29	5.2	2.17
MOORHEAD 242520001 A01	25	1.9	2.2	2.9	3.6	4.1	4.8	5.3	5.7	7.5	10.6	15.2	5.6	3.39	4.8	1.75
ST PAUL 245380001 A01	25	2.3	3.0	3.7	4.0	4.8	6.4	7.6	8.7	11.2	16.1	16.6	7.5	4.45	6.4	1.81
MISSOURI																
KANSAS CITY 262380002 A01	24	0.0	1.9	2.5	3.9	5.8	7.6	8.3	9.9	10.8	13.0	16.6	7.4	4.86	5.5	2.60
ST LOUIS 264280001 A01	23	7.4	10.0	15.0	16.3	19.6	20.9	24.5	26.0	29.8	35.4	49.6	23.1	11.10	20.7	1.64

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
MONTANA																
HELENA																
270720001 A01	24	1.0	1.4	1.7	2.9	3.1	3.7	4.6	5.4	6.8	13.9	26.0	5.4	5.65	3.9	2.21
NEBRASKA																
OMAHA																
281860001 A01	26	1.9	2.2	3.3	3.6	4.8	6.3	7.1	8.8	9.7	12.1	26.7	7.4	5.63	5.8	2.00
NEVADA																
LAS VEGAS																
290320001 A01	22	1.1	2.2	3.0	3.2	3.5	3.9	4.3	4.5	5.1	6.4	10.1	4.3	2.21	3.8	1.67
RENO																
290480001 A01	26	1.6	1.9	2.3	2.5	2.9	3.2	3.9	4.6	5.0	5.6	7.6	3.7	1.98	3.4	1.93
NEW HAMPSHIRE																
CONCORD																
300120001 A01	24	2.6	3.5	4.3	4.6	4.8	5.4	6.5	6.8	8.4	9.1	16.7	6.5	3.36	5.9	1.95
NEW JERSEY																
BURLINGTON CO																
310660002 A01	26	5.5	6.5	8.1	9.8	12.2	12.6	13.6	14.7	15.2	17.9	32.0	13.2	6.12	12.0	1.96
CAMDEN																
310720001 A01	24	7.8	14.8	15.3	17.5	18.1	19.8	22.8	23.8	28.6	34.1	41.4	22.0	8.18	20.6	1.43
ELIZABETH																
311300001 A01	25	4.2	5.9	7.1	8.4	9.1	11.0	11.7	12.6	15.1	16.9	28.4	11.5	5.26	10.5	1.59
GLASSBORO																
311700001 A01	25	2.3	5.2	7.1	8.5	8.9	10.1	11.9	15.1	21.6	28.0	29.9	13.4	8.13	11.2	1.89
HAMILTON																
311940001 A01	23	3.9	6.4	7.1	7.6	8.2	8.5	9.0	10.3	13.3	16.7	19.2	9.9	3.96	9.2	1.47
JERSEY CITY																
312320001 A01	26	4.6	5.4	8.1	9.7	10.3	11.3	13.3	14.0	15.4	17.2	25.3	12.1	4.96	11.1	1.54
NEWARK																
313480001 A01	25	5.7	6.4	7.7	8.8	9.0	9.4	11.3	12.2	14.1	15.9	26.8	11.2	4.68	10.5	1.44
PATERSON																
314140001 A01	25	6.2	9.3	9.4	10.9	11.1	11.7	12.9	13.9	15.5	16.7	22.8	12.7	3.69	12.2	1.33
PERTH AMBOY																
314220001 A01	24	4.7	5.5	7.3	10.4	11.2	12.1	15.8	16.2	19.6	19.7	26.4	13.3	5.61	12.1	1.59
TRENTON																
315400001 A01	24	4.7	5.2	6.2	7.5	8.4	8.6	9.5	13.7	18.4	25.0	41.6	12.8	9.63	10.5	1.83
NEW MEXICO																
ALBUQUERQUE																
320040001 A01	26	3.0	3.8	4.7	4.9	5.2	5.4	7.0	7.5	7.9	8.3	9.7	6.1	1.83	5.8	1.36
NEW YORK																
ALBANY																
330040001 A01	25	3.5	4.0	4.2	6.6	8.4	9.6	10.0	11.4	11.7	15.4	19.3	9.4	4.42	8.4	1.67
BUFFALO																
330660001 A01	24	5.9	6.5	7.6	8.1	10.2	10.7	12.5	14.0	15.6	16.1	19.3	11.4	3.87	10.7	1.43
NEW YORK CITY																
334680001 A01	24	5.0	5.8	8.3	11.3	11.8	15.1	17.1	21.3	33.4	39.3	57.2	19.1	13.53	15.3	1.90
NIAGARA FALLS																
334740001 A01	26	4.2	5.1	6.0	7.8	11.0	11.5	12.2	15.0	16.0	16.1	46.4	12.5	8.13	10.	1.70
ROCHESTER																
335760001 A01	25	5.2	6.6	7.4	9.2	9.3	11.2	14.2	15.8	17.7	22.1	55.3	14.1	10.84	12.1	1.70
SYRACUSE																
336620001 A01	25	1.0	6.4	7.5	12.0	13.6	15.7	16.9	18.4	21.8	32.3	35.4	16.3	6.75	13.5	2.09
UTICA																
336880001 A01	26	1.6	2.8	3.7	4.4	6.1	6.7	6.9	7.6	9.5	16.8	21.3	7.7	5.16	6.3	1.92
NORTH CAROLINA																
CHARLOTTE																
340700001 A01	24	3.7	5.8	7.4	8.8	9.0	9.2	10.5	11.5	13.2	15.3	18.4	10.2	3.62	9.6	1.49
DURHAM																
341160001 A01	26	1.8	3.1	3.9	4.1	5.4	5.9	6.9	8.3	8.5	10.8	12.6	6.4	2.99	5.8	1.64
GREENSBORO																
341740001 A01	24	5.4	6.4	7.7	8.5	8.6	9.1	10.7	12.0	13.4	14.3	16.5	10.2	3.16	9.7	1.36
WINSTON-SALEM																
344460002 A01	25	3.0	4.2	5.4	6.4	7.7	8.0	8.9	11.6	12.4	15.1	18.3	9.1	4.08	8.2	1.62
NORTH DAKOTA																
BISMARCK																
350100001 A01	25	0.0	0.5	1.0	2.0	2.2	2.6	3.1	3.9	4.7	10.1	12.3	3.8	3.44	2.4	2.89
OHIO																
CANTON																
361000001 A01	26	3.9	4.8	6.9	7.1	8.7	9.6	11.6	13.2	15.7	26.9	29.4	11.9	7.16	10.1	1.76

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
OHIO																
CINCINNATI 361220001 A01	26	3.3	5.4	6.2	11.3	11.9	12.3	13.6	16.9	18.2	23.3	40.4	15.1	10.97	12.7	1.80
CLEVELAND 361300001 A01	25	9.4	6.8	9.0	11.1	14.0	15.2	16.4	19.0	20.7	28.7	32.3	15.9	7.29	14.3	1.63
COLUMBUS 361460001 A01	25	3.2	5.1	8.7	10.9	12.1	13.2	13.4	18.8	20.3	24.0	31.5	14.4	7.18	12.9	1.76
DAYTON 361660001 A01	25	3.5	10.4	11.3	12.1	12.6	14.5	15.3	17.4	18.3	23.7	34.8	15.6	6.29	14.3	1.55
TOLEDO 366600001 A01	26	2.9	4.3	5.4	6.8	8.4	9.6	11.0	12.3	13.3	16.4	23.4	10.2	5.32	8.9	1.71
YOUNGSTOWN 367760001 A01	26	2.9	4.3	7.6	7.8	10.1	10.4	10.8	13.9	16.1	21.0	25.3	11.0	6.00	10.4	1.71
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	0.0	1.1	1.3	2.5	3.2	5.0	5.5	6.7	7.2	8.5	12.6	4.7	3.14	3.4	2.00
TULSA 373000001 A01	26	2.0	5.0	5.8	7.8	9.2	9.8	10.8	12.1	13.0	16.1	42.5	11.1	7.47	9.5	1.76
OREGON																
MEDFORD 381160001 A01	23	0.0	1.6	2.1	2.3	2.6	2.6	2.9	3.6	4.1	4.7	7.0	3.0	1.42	2.6	1.89
PORTLAND 381460001 A01	25	2.0	2.6	3.6	5.0	6.1	6.4	7.7	8.2	9.3	12.3	16.8	7.2	3.86	6.2	1.76
PENNSYLVANIA																
ALLENTOWN 390120001 A01	25	3.2	8.3	10.3	11.7	12.9	15.0	17.8	22.7	24.0	26.6	28.4	16.8	7.22	15.1	1.67
ALTOONA 390140001 A01	23	1.7	3.1	4.3	5.2	9.3	11.4	13.0	13.7	14.8	16.7	17.2	10.2	5.21	8.4	2.06
BETHLEHEM 390780002 A01	29	0.0	0.5	1.2	7.8	9.2	12.2	12.7	14.8	16.9	21.3	27.5	11.2	7.90	6.3	4.31
ERIE 393040002 A01	25	6.2	8.4	9.9	11.6	12.8	13.8	14.1	16.2	19.6	27.1	30.6	15.6	6.54	14.3	1.52
HARRISBURG 393860001 A01	24	4.8	7.4	8.8	8.9	9.3	9.5	10.6	11.1	12.0	12.7	17.6	10.2	2.84	9.9	1.32
HAZLETON 393960001 A01	23	2.6	3.6	4.7	5.3	6.2	9.2	10.3	10.6	12.3	16.7	38.4	9.9	7.47	8.1	1.86
JOHNSTOWN 394460001 A01	24	3.3	3.6	6.6	14.2	14.9	15.1	17.8	20.1	22.3	22.9	26.1	15.3	6.88	13.0	1.98
PUERTO RICO																
GUAYANILLA 401080002 A01	23	0.0	0.7	1.3	1.8	3.3	3.7	4.1	4.3	4.7	6.0	8.3	3.5	2.13	2.6	2.61
PONCE 401920002 A01	23	0.0	0.5	2.2	3.1	3.7	3.9	4.0	4.6	5.1	5.5	7.0	3.6	1.82	2.7	2.62
SAN JUAN 402140001 A01	26	1.1	2.0	2.6	2.8	3.1	3.3	3.8	4.2	4.2	4.5	7.2	3.5	1.20	3.2	1.46
RHODE ISLAND																
EAST PROVIDENCE 410170001 A01	25	9.9	11.5	12.1	12.7	13.4	14.9	16.4	17.1	17.6	18.7	27.1	15.5	3.93	15.1	1.27
PROVIDENCE 410500001 A01	26	3.5	6.8	8.6	9.8	11.4	11.8	12.9	14.4	15.3	16.0	21.4	11.9	4.86	11.1	1.49
SOUTH CAROLINA																
COLUMBIA 420760001 A01	22	1.0	2.5	3.3	4.2	4.4	4.8	5.0	5.2	6.5	7.2	12.7	5.0	2.38	4.5	1.67
GREENVILLE 421180001 A01	29	8.7	10.9	11.6	12.8	13.1	14.0	14.1	15.0	16.6	17.0	18.2	13.9	2.52	13.7	1.21
TENNESSEE																
CHATTANOOGA 440380001 A01	26	2.0	11.2	11.3	12.1	12.5	12.9	14.2	15.4	16.1	21.1	23.7	13.9	4.38	13.0	1.36
KNOXVILLE 441740001 A01	24	5.3	5.9	6.2	7.7	8.1	9.5	10.8	11.0	14.9	16.7	17.3	10.0	3.85	9.4	1.46
MEMPHIS 442340001 A01	26	2.9	3.4	4.1	4.7	5.1	5.6	6.2	7.2	8.6	11.2	12.0	6.4	2.79	5.8	1.53
NASHVILLE 442540001 A01	23	3.8	5.5	6.6	7.6	8.7	9.5	11.2	13.2	16.6	21.0	26.3	11.6	5.92	10.2	1.66
TEXAS																
DALLAS 451310002 A01	25	1.6	2.1	2.9	3.4	3.6	3.9	4.4	6.2	6.7	8.6	11.0	4.8	2.42	4.3	1.69

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
FORT WORTH																
481860001 A01	23	2.4	2.7	3.1	3.6	3.9	4.6	5.0	5.7	7.7	11.2	14.9	5.6	3.33	4.9	1.86
HOUSTON																
482360001 A01	25	2.3	3.0	3.7	4.3	5.0	9.0	10.4	12.4	13.3	15.0	23.0	9.1	5.35	7.9	1.92
PASADENA																
484860002 A01	24	3.9	4.2	4.8	4.4	4.6	7.4	8.4	10.3	15.2	20.1	25.6	9.7	6.11	8.3	1.74
SAN ANTONIO																
484780001 A01	26	1.9	3.1	3.6	3.6	4.1	4.4	5.5	6.1	6.7	7.1	8.8	5.0	1.72	4.7	1.44
UTAH																
OGDEN																
466860001 A01	24	2.8	3.3	3.6	3.7	4.5	4.7	5.6	6.3	6.9	7.9	18.4	5.7	3.22	5.2	1.53
SALT LAKE CITY																
466920001 A01	26	2.6	2.9	3.2	3.4	4.1	4.6	5.4	6.3	9.4	16.1	34.2	7.0	6.75	5.5	1.90
VERMONT																
BURLINGTON																
478140001 A01	23	4.9	8.2	8.9	9.1	9.7	10.1	10.9	11.4	12.6	14.4	23.2	10.9	3.76	10.4	1.37
VIRGINIA																
DANVILLE																
488920001 A01	25	3.6	4.9	5.9	7.0	9.6	11.5	12.9	13.8	14.8	18.1	19.7	11.0	4.73	9.9	1.63
HAMPTON																
481440001 A01	36	3.3	4.2	5.2	6.0	6.4	7.7	8.4	9.2	10.3	13.2	17.7	8.1	3.47	7.4	1.52
LYNCHBURG																
481840001 A01	25	4.6	5.2	5.6	7.1	7.5	7.8	8.7	9.5	12.1	18.2	20.0	9.3	4.44	8.5	1.52
NEWPORT NEWS																
482120001 A01	24	6.1	9.3	9.5	10.6	11.4	11.9	13.4	16.2	16.7	19.0	22.0	13.2	4.13	12.6	1.38
NORFOLK																
482140001 A01	26	4.2	7.3	9.4	9.8	10.6	11.3	12.3	13.6	16.4	26.5	55.2	14.8	11.10	12.5	1.73
PORTSMOUTH																
482440001 A01	26	4.8	6.7	8.9	10.4	10.8	12.5	16.2	20.7	23.1	25.7	27.7	13.1	7.21	13.5	1.67
RICHMOND																
482460001 A01	25	5.8	6.4	7.3	7.8	8.4	9.3	9.7	12.0	12.4	14.7	20.8	10.3	3.80	9.7	1.43
ROANOKE																
482700001 A01	26	9.6	10.6	11.8	12.5	13.6	14.3	17.2	19.0	22.0	23.8	25.4	16.2	5.04	15.5	1.36
WASHINGTON																
SEATTLE																
491840001 A01	26	2.8	3.4	3.7	3.8	4.3	4.7	5.1	5.7	6.1	8.1	15.1	5.5	2.92	5.1	1.50
SPOKANE																
492840001 A01	25	1.4	1.4	2.0	2.3	2.9	3.6	3.9	4.7	5.1	5.8	6.6	3.6	1.56	3.3	1.61
TACOMA																
492140001 A01	25	2.6	5.1	7.1	7.9	8.7	9.2	9.9	10.6	10.8	13.4	16.1	9.3	3.09	8.7	1.49
WEST VIRGINIA																
CHARLESTON																
500200001 A01	25	4.9	8.4	8.6	9.3	13.7	16.5	28.5	34.2	38.7	57.5	73.3	25.8	19.74	19.4	2.18
WISCONSIN																
EAU CLAIRE																
518440002 A01	23	1.2	3.0	3.1	3.5	4.1	6.1	8.0	9.7	10.8	13.1	14.3	7.1	4.13	5.9	1.95
KENOSHA																
511540001 A01	26	2.1	4.1	5.4	6.1	7.0	7.4	8.4	12.0	12.7	18.0	47.7	10.5	9.09	8.4	1.90
MADISON																
511840001 A01	25	2.9	3.6	4.5	5.7	5.9	7.1	7.8	8.6	11.7	15.5	49.5	9.5	9.16	7.6	1.85
MILWAUKEE																
512300001 A01	36	3.4	4.4	5.0	5.9	6.9	7.3	10.1	12.0	13.2	20.4	24.1	9.9	5.82	8.5	1.73
RACINE																
512800001 A01	24	2.8	3.5	4.9	6.4	7.3	7.6	8.1	10.4	11.2	14.3	24.1	8.7	4.71	7.6	1.68
SUPERIOR																
513480001 A01	26	2.7	3.6	4.2	4.4	5.3	5.6	6.5	7.2	8.8	12.6	15.8	6.9	3.55	6.2	1.60
WYOMING																
CASPER																
520120001 A01	25	2.6	2.6	3.4	4.2	4.7	5.2	5.7	6.5	7.1	7.9	12.7	5.5	2.31	5.1	1.51
CHEYENNE																
520140001 A01	25	6.1	6.2	6.3	7.1	7.6	7.8	8.0	8.7	9.4	9.8	10.0	7.9	1.30	7.8	1.18

Table 6-2. SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P 030070001 A03	24	1.3	2.0	2.0	2.1	2.3	3.2	3.5	4.5	4.6	9.3	6.7	3.3	1.45	3.0	1.56
ARKANSAS																
MONTGOMERY CO 041760001 A03	24	3.1	4.0	4.8	5.8	5.9	6.0	6.5	8.6	9.8	11.6	13.0	7.1	2.76	6.6	1.48
CALIFORNIA																
HUMBOLDT CO 053300001 A03	26	1.6	2.5	2.9	3.2	3.8	4.1	4.5	5.6	6.3	8.1	15.3	4.9	2.80	4.3	1.62
COLORADO																
MESA VERDE NAT PAR 061530002 A03	26	0.7	1.1	1.3	1.3	1.4	1.4	1.5	1.7	2.2	3.1	4.0	1.8	0.80	1.6	1.49
FLORIDA																
HARDEE CO 101480001 A03	24	1.4	1.7	1.9	2.4	2.7	3.0	3.7	4.2	5.4	7.1	10.7	3.9	2.38	3.3	1.74
IDAHO																
BUTTE CO 130540001 A03	24	0.0	0.9	0.9	1.3	1.5	1.6	2.0	2.2	2.4	3.0	7.0	2.0	1.49	1.6	2.13
INDIANA																
MONROE CO 152800001 A03	24	3.5	3.8	4.1	5.3	5.7	7.4	8.9	9.5	10.8	12.7	18.3	7.9	3.81	7.1	1.61
PARKE CO 153240001 A03	23	2.9	4.4	5.0	5.6	6.9	7.4	8.4	8.7	10.6	15.2	27.6	8.6	5.37	7.5	1.67
MAINE																
ACADIA NAT PARK 200010001 A03	26	1.2	1.9	2.6	2.8	3.2	3.3	4.4	6.1	6.7	9.4	15.3	4.9	3.42	4.1	1.86
MARYLAND																
CALVERT CO 210250001 A03	25	1.1	1.4	5.1	5.4	6.4	7.9	8.3	12.6	14.3	18.9	37.2	9.8	7.90	7.1	2.44
MISSOURI																
SHANNON CO 264480002 A03	24	1.1	2.3	2.7	3.1	4.1	4.5	5.6	6.3	10.2	13.4	33.2	6.6	6.63	5.0	2.08
MONTANA																
GLACIER NAT PARK 270570001 A03	26	0.5	0.7	0.9	1.1	1.1	1.2	1.6	1.8	2.0	3.4	5.8	1.7	1.36	1.4	1.83
NEBRASKA																
THOMAS CO 282480001 A03	25	1.4	1.8	2.6	3.8	4.7	5.1	5.8	6.0	6.4	7.7	9.1	4.9	2.05	4.4	1.67
NEVADA																
WHITE PINE CO 290560001 A03	23	0.0	0.8	0.8	1.5	1.5	2.0	2.5	3.1	3.6	4.7	5.6	2.3	1.56	1.8	2.34
NEW HAMPSHIRE																
COOS CO 300140001 A03	22	1.2	1.8	1.9	2.5	2.5	2.8	3.5	3.8	4.3	4.9	10.0	3.4	1.84	3.0	1.60
NEW YORK																
JEFFERSON CO 333540001 A03	25	2.4	3.2	3.7	4.3	5.6	6.7	7.9	8.6	10.6	22.5	25.8	9.1	6.95	7.2	1.97
NORTH CAROLINA																
CAPE HATTERAS NAT 340990001 A03	23	1.9	3.4	3.9	4.3	5.3	7.4	8.0	9.8	12.9	17.1	18.0	8.1	4.84	6.8	1.85
OKLAHOMA																
CHEROKEE CO 370480001 A03	24	1.8	2.2	3.0	3.7	4.2	4.3	5.1	6.3	8.3	11.1	13.2	5.6	3.20	4.8	1.76
OREGON																
CURRY CO 380440001 A03	25	1.4	1.6	1.7	1.9	2.2	2.3	2.6	3.1	3.5	5.4	5.6	2.8	1.31	2.5	1.54
PENNSYLVANIA																
CLARION CO 391760001 A03	26	3.7	4.0	4.8	5.2	6.2	8.1	8.9	10.7	11.9	13.8	31.1	9.1	5.80	7.8	1.70
RHODE ISLAND																
WASHINGTON CO 410380002 A03	27	3.8	4.8	5.6	7.1	8.3	8.5	8.8	9.6	11.0	16.7	19.7	9.1	4.05	8.4	1.51
SOUTH CAROLINA																
RICHLAND CO 421980001 A03	25	3.6	5.0	6.0	6.4	6.6	7.4	7.5	8.6	8.9	12.4	16.4	7.8	2.89	7.4	1.40
SOUTH DAKOTA																
BLACK HILLS NAT PO 436110001 A03	26	0.8	0.8	1.3	1.6	1.6	1.6	1.8	2.1	2.5	2.7	4.1	1.9	0.75	1.7	1.50
TENNESSEE																
CUMBERLAND CO 440680001 A03	23	2.9	3.6	3.9	4.3	4.8	5.2	6.1	7.4	9.5	13.3	16.4	6.8	3.69	6.1	1.63

Table 6-2 (continued). SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
MATAGORDA CO																
480930001 A03	26	4.1	6.7	7.2	8.2	9.0	9.2	10.0	10.8	12.4	13.5	16.9	9.8	2.81	9.5	1.32
VERMONT																
ORANGE CO																
470340001 A03	26	1.7	2.7	3.4	3.8	3.8	4.3	4.9	7.1	8.3	10.7	10.1	5.8	3.73	5.0	1.75
VIRGINIA																
SHENANDOAH NAT PAR																
462090001 A03	26	9.0	10.1	10.9	11.4	11.9	12.0	12.7	13.3	13.7	16.3	33.6	13.1	4.66	12.9	1.29
WYTHE CO																
483440001 A03	25	3.6	4.5	4.7	5.0	5.5	6.6	6.9	8.8	9.2	12.1	19.5	7.6	3.99	6.9	1.55
WISCONSIN																
DOOR CO																
510780001 A03	25	1.2	1.9	2.6	2.5	2.9	3.0	3.3	4.5	4.9	9.6	11.2	4.0	2.73	3.4	1.77
WYOMING																
YELLOWSTONE NAT PA																
520060001 A03	23	0.0	2.0	2.0	2.1	2.5	2.6	2.7	2.7	3.2	3.7	5.4	3.6	1.09	2.3	1.92

Table 6-3. SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN																
011490001 A01	23	1.5	3.6	4.5	4.8	5.2	5.5	6.9	7.8	9.2	11.2	19.8	6.9	4.01	6.0	1.75
HUNTSVILLE																
011860001 A01	26	2.2	2.7	3.9	4.5	5.4	6.0	7.1	8.2	10.1	13.6	19.4	7.4	4.55	6.2	1.80
MONTGOMERY																
012460001 A01	25	0.7	2.8	3.3	5.8	6.7	7.5	8.0	9.5	10.7	13.0	17.9	7.9	4.39	6.9	2.09
ALASKA																
ANCHORAGE																
020040003 A01	24	0.0	0.6	0.9	1.7	1.8	1.9	2.7	2.7	3.3	3.7	4.1	2.2	1.14	1.8	2.18
ARIZONA																
MARICOPA CO																
030440001 A01	26	0.0	1.5	2.7	3.0	3.2	3.6	3.9	4.2	5.1	6.1	6.5	3.6	1.40	3.1	1.98
TUCSON																
030840001 A01	26	1.0	1.9	3.1	3.2	3.7	3.9	4.4	4.7	5.1	6.1	17.1	4.5	3.01	3.9	1.73
ARKANSAS																
LITTLE ROCK																
041440001 A01	24	1.7	2.4	3.0	4.5	5.5	5.9	7.0	8.1	8.9	11.7	17.2	6.8	4.15	5.7	1.88
WEST MEMPHIS																
042740001 A01	24	0.0	3.1	3.8	4.8	4.4	6.0	6.5	7.6	9.8	16.4	28.7	7.8	6.73	5.7	2.48
CALIFORNIA																
ANAHEIM																
050230001 A01	26	1.2	2.1	3.3	4.2	8.4	8.6	9.4	11.7	13.4	17.7	38.4	9.8	7.96	7.2	2.37
BURBANK																
050480002 A01	25	0.0	0.4	1.5	2.1	2.7	5.4	6.1	10.4	13.5	17.6	43.3	8.1	9.39	4.1	3.90
FRESNO																
052800002 A01	23	0.0	1.4	2.5	3.0	4.1	4.9	4.8	5.8	7.3	10.0	37.7	6.1	7.39	4.1	2.56
GLENDALE																
052940001 A01	26	0.8	1.5	3.2	4.0	4.6	6.9	10.2	11.4	13.2	16.5	24.0	8.8	6.21	6.4	2.46
LONG BEACH																
054100001 A01	26	2.0	3.7	5.4	6.0	7.4	8.9	9.8	10.8	11.1	14.0	15.6	8.6	3.68	7.7	1.66
LOS ANGELES																
054180001 A01	25	2.8	2.7	4.2	6.9	11.3	12.8	13.9	15.5	17.8	28.2	40.5	13.2	9.23	10.1	2.25
OAKLAND																
055300001 A01	26	1.2	1.6	3.0	4.3	5.7	5.9	6.9	7.5	8.4	9.8	10.4	5.9	2.79	[illegible]	1.91
ONTARIO																
055780001 A01	23	1.3	1.9	2.8	3.8	6.8	7.4	7.4	11.9	13.3	17.2	22.2	8.5	5.73	[illegible]	2.26
PASADENA																
055760002 A01	23	1.6	2.3	5.6	7.2	10.1	11.4	13.3	14.7	16.9	21.4	28.6	12.1	7.05	9.6	2.20
RIVERSIDE																
056400001 A01	25	0.0	1.3	2.2	4.9	5.6	8.0	9.1	11.7	13.3	19.1	21.0	8.9	6.26	6.0	2.96
SACRAMENTO																
056580001 A01	26	0.0	0.0	1.1	1.3	1.8	3.3	4.0	6.0	6.2	6.9	7.1	3.5	2.46	2.3	2.95
SAN BERNARDINO																
056640001 A01	23	0.0	1.5	3.2	6.6	8.4	9.4	12.3	13.3	16.7	21.0	46.7	11.5	10.18	7.4	3.19
SAN DIEGO																
056800001 A01	24	1.8	2.8	3.2	4.9	6.4	7.0	9.0	9.8	11.0	11.5	17.2	7.7	4.15	6.5	1.87
SAN FRANCISCO																
056860001 A01	25	1.0	2.2	2.7	3.4	3.6	3.9	4.2	4.8	5.0	6.5	9.4	4.2	1.87	3.7	1.68
SANTA ANA																
057180001 A01	26	0.6	1.9	4.0	5.8	8.2	8.8	9.7	10.4	11.6	17.8	24.4	9.4	5.96	7.2	2.34
TORRANCE																
058260001 A01	26	1.0	2.4	5.4	5.9	6.1	7.5	8.6	9.6	11.0	13.8	25.0	8.2	4.89	6.8	2.02
COLORADO																
DENVER																
060580001 A01	26	0.8	1.8	2.3	2.8	3.9	4.1	4.6	5.5	5.6	7.7	12.0	4.5	2.48	3.8	1.85
CONNECTICUT																
BRIDGEPORT																
070060001 A01	26	3.4	5.4	8.0	8.4	10.1	10.6	11.3	12.3	13.2	21.6	22.6	11.6	5.42	10.4	1.62
HARTFORD																
070420001 A01	26	4.7	6.2	7.9	9.6	10.9	12.3	15.0	17.3	20.1	23.7	26.3	13.9	6.59	12.3	1.66
NEW HAVEN																
070700001 A01	26	6.8	11.4	13.8	14.1	16.6	19.1	21.2	26.7	29.2	33.1	48.3	20.9	9.98	19.8	1.56
WATERBURY																
071240001 A01	25	3.1	6.0	8.4	11.6	12.3	14.8	15.9	17.5	20.2	26.8	31.0	15.1	7.40	13.3	1.75
DELAWARE																
NEWARK																
080140001 A01	25	3.0	6.5	8.2	9.1	9.7	11.4	13.1	15.7	17.3	20.3	29.6	13.0	6.14	11.7	1.60

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
DELAWARE																
WILMINGTON																
000260003 A01	25	5.6	8.5	8.8	9.6	11.1	13.5	14.3	15.3	17.0	20.3	26.5	13.7	5.19	12.8	1.46
FLORIDA																
JACKSONVILLE																
101960002 A01	25	2.0	4.5	5.1	5.8	6.2	7.1	7.3	7.8	9.4	10.2	14.4	7.2	2.81	6.6	1.56
MIAMI																
102700002 A01	25	2.1	2.3	2.6	3.6	4.1	4.4	4.9	5.3	6.1	7.9	10.1	4.8	2.09	4.4	1.54
ST PETERSBURG																
103900002 A01	24	2.3	3.6	4.6	5.0	5.5	6.9	7.5	8.6	9.9	14.5	15.8	7.4	3.68	6.7	1.63
TAMPA																
104360002 A01	26	3.5	4.9	7.2	7.4	8.4	8.6	12.0	14.9	16.3	19.8	21.4	11.2	5.31	10.0	1.65
GEORGIA																
ATLANTA																
110300001 A01	26	2.1	4.3	5.1	5.9	7.5	7.9	8.9	10.9	13.8	21.5	26.6	9.7	6.04	8.3	1.79
COLUMBUS																
111280001 A01	23	2.4	3.8	4.5	5.0	5.8	7.0	7.3	7.8	9.3	13.6	18.9	7.7	4.35	6.8	1.67
SAVANNAH																
114500001 A01	26	4.0	6.2	7.6	8.6	9.0	9.2	10.3	11.3	13.4	18.1	22.9	10.8	4.57	10.0	1.49
HAWAII																
HONOLULU																
120120001 A01	25	2.5	2.9	3.3	3.5	4.1	4.5	4.6	5.0	5.1	6.6	8.1	4.6	1.40	4.4	1.35
IDAHO																
BOISE CITY																
130220001 A01	23	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.9	3.5	5.6	6.4	2.8	1.58	2.4	1.64
ILLINOIS																
CHICAGO																
141220001 A01	26	4.5	5.8	7.5	11.1	12.3	13.1	17.6	19.1	19.7	25.8	29.6	14.8	6.98	13.1	1.69
NORTH CHICAGO																
145620002 A01	25	0.8	5.3	6.7	7.9	8.2	9.3	9.6	16.4	17.4	23.8	36.7	12.5	8.66	9.9	2.14
PEORIA																
146080001 A01	26	3.3	3.5	4.4	5.0	7.1	7.5	8.7	10.9	14.3	33.2	38.0	11.5	10.45	8.5	2.09
ROCK ISLAND																
146700001 A01	24	2.9	3.7	4.0	5.1	6.7	6.7	9.1	10.5	13.8	16.0	20.7	8.8	4.96	7.6	1.76
SPRINGFIELD																
147280001 A01	25	3.1	3.8	5.1	5.7	5.9	7.1	8.3	9.2	11.3	15.6	18.8	8.5	4.34	7.5	1.64
INDIANA																
EAST CHICAGO																
191180001 A01	26	4.2	6.4	8.4	11.5	16.6	17.3	19.0	19.8	20.3	27.2	31.7	16.3	7.47	14.3	1.76
EVANSVILLE																
191360001 A01	26	4.9	6.0	6.5	7.0	7.6	8.4	9.4	10.3	11.8	17.0	23.0	9.7	4.24	9.0	1.46
FORT WAYNE																
191380001 A01	24	3.7	3.9	6.4	7.4	8.2	9.7	10.6	10.8	17.4	20.1	23.8	10.9	5.78	9.6	1.71
GARY																
191520001 A01	23	4.4	7.8	8.4	9.3	14.1	16.6	17.9	19.0	21.3	22.6	27.3	15.2	6.23	13.8	1.61
HAMMOND																
191780001 A01	26	5.5	6.4	8.0	9.2	10.3	12.8	13.8	15.8	17.7	20.8	36.4	13.5	6.82	12.1	1.60
INDIANAPOLIS																
192040001 A01	25	6.0	6.4	7.7	8.4	8.7	10.4	11.3	14.2	18.3	26.9	29.6	13.2	7.40	11.6	1.64
NEW ALBANY																
192980002 A01	21	4.8	4.2	5.2	7.7	8.5	9.6	10.7	13.0	13.6	16.6	19.0	10.1	4.72	9.0	1.65
SOUTH BEND																
193880002 A01	22	4.3	5.0	5.4	6.9	7.1	7.6	10.4	10.8	14.7	15.9	18.1	9.6	4.34	8.7	1.57
TERRE HAUTE																
194060001 A01	26	4.6	5.4	6.3	7.0	9.1	9.8	11.0	11.7	15.8	24.9	61.0	13.4	11.84	10.8	1.84
IOWA																
CEDAR RAPIDS																
160640001 A01	23	2.6	3.2	3.5	4.1	4.8	5.1	6.0	7.0	9.3	11.0	20.3	6.6	4.06	5.7	1.68
DAVENPORT																
161060001 A01	25	2.6	3.4	4.8	9.4	10.5	11.1	13.7	15.9	16.3	20.3	28.5	12.2	6.77	10.1	1.95
DES MOINES																
161180001 A01	24	1.2	2.1	2.4	3.4	4.5	4.7	5.9	7.0	8.7	11.8	34.0	6.7	6.72	5.0	2.10
KANSAS																
KANSAS CITY																
171800002 A01	26	1.5	2.0	2.8	3.1	3.5	5.2	6.9	7.7	10.4	13.8	44.0	7.5	8.41	5.3	2.23
TOPEKA																
173960001 A01	26	1.1	1.4	2.3	2.7	3.1	3.9	6.8	10.3	11.[illegible]	[illegible]	22.0	7.1	6.31	4.8	2.52

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
KANSAS																
WICHITA 179746001 A01	25	1.9	2.1	2.9	3.8	4.4	5.6	6.5	8.1	11.2	12.7	15.8	6.7	4.09	5.6	1.91
KENTUCKY																
ASHLAND 180000002 A01	26	6.8	7.8	8.9	11.0	12.8	14.7	16.8	21.0	24.4	99.0	99.0	22.0	20.93	16.8	1.98
BOWLING GREEN 180320001 A01	21	3.8	4.3	5.1	5.7	6.3	6.8	8.5	9.0	12.1	15.7	21.0	8.9	5.80	7.8	1.65
COVINGTON 180800001 A01	25	2.6	4.5	4.9	6.0	6.9	8.1	8.1	11.1	12.8	19.5	25.9	9.9	6.18	8.5	1.77
LEXINGTON 182300001 A01	25	2.7	3.5	4.1	6.0	6.1	6.5	7.2	8.3	8.7	12.9	20.6	7.7	4.37	6.8	1.67
LOUISIANA																
BATON ROUGE 190280001 A01	26	2.9	3.7	4.5	6.4	6.9	7.9	8.8	9.1	10.1	12.9	16.4	8.2	3.52	7.4	1.58
NEW ORLEANS 192020002 A01	26	2.6	4.4	5.5	6.4	7.9	8.1	8.6	9.2	11.1	12.7	18.1	8.5	3.53	7.8	1.53
SHREVEPORT 192740001 A01	24	3.3	3.8	4.2	4.6	5.0	6.4	7.0	7.3	10.1	15.0	20.2	7.5	4.51	6.5	1.65
MAINE																
PORTLAND 200960002 A01	26	6.9	8.3	9.3	10.9	12.8	16.7	18.9	21.8	23.3	27.0	34.1	17.0	7.59	15.3	1.59
MARYLAND																
BALTIMORE 210120001 A01	25	8.4	9.2	9.5	12.6	13.6	14.8	14.9	21.8	24.9	32.7	84.7	19.8	15.65	16.6	1.73
MASSACHUSETTS																
FALL RIVER 220580002 A01	24	6.7	6.9	7.5	9.7	10.5	13.8	14.8	15.3	18.4	20.1	44.1	14.9	9.63	12.9	1.68
SPRINGFIELD 222160002 A01	25	4.5	6.8	7.8	8.7	9.7	10.3	11.2	13.9	14.1	22.1	27.6	12.5	5.96	11.4	1.56
WORCHESTER 222640001 A01	23	6.2	7.4	8.9	9.4	12.6	14.6	15.8	17.8	19.6	20.7	39.9	15.5	8.23	13.8	1.62
MICHIGAN																
DETROIT 231180001 A01	26	4.8	6.7	9.0	9.9	10.5	12.1	15.5	19.1	21.0	23.3	28.0	14.5	6.46	13.1	1.61
FLINT 231580001 A01	25	3.0	5.0	6.5	7.4	7.8	9.0	9.4	10.0	12.3	16.8	20.4	9.7	4.43	8.8	1.59
GRAND RAPIDS 231820001 A01	25	3.4	4.8	6.0	7.6	8.2	8.7	11.3	13.6	15.6	17.8	30.2	11.2	6.26	9.7	1.72
LANSING 232640001 A01	26	2.8	4.3	5.7	6.2	8.0	9.1	13.9	16.5	18.9	23.1	28.0	12.3	7.22	10.2	1.90
SAGINAW 234760001 A01	25	2.9	4.6	5.6	6.4	6.6	7.6	8.6	9.6	9.8	13.9	27.6	9.0	5.14	8.0	1.60
TRENTON 235120001 A01	26	4.1	5.1	7.5	7.9	8.5	9.5	10.3	12.1	12.6	18.9	20.1	10.7	4.52	9.8	1.53
MINNESOTA																
DULUTH 241040001 A01	26	2.4	4.2	4.7	4.8	5.9	6.4	7.6	8.8	10.9	13.8	22.1	7.8	4.35	6.9	1.64
MINNEAPOLIS 242260001 A01	26	2.5	3.0	4.6	4.9	6.5	6.9	7.6	8.9	10.7	15.6	18.9	8.0	4.50	7.0	1.73
MOORHEAD 242520001 A01	25	0.0	0.5	2.2	4.0	5.5	6.0	6.2	7.0	7.5	11.9	15.2	5.8	3.88	4.1	2.88
ST PAUL 243300001 A01	26	3.1	3.8	5.0	5.4	6.3	6.4	8.0	13.0	15.1	18.1	22.8	9.4	5.67	8.0	1.79
MISSOURI																
KANSAS CITY 262380002 A01	21	3.4	3.9	4.3	5.4	5.7	6.3	8.4	9.0	10.2	11.4	45.9	8.8	8.90	7.1	1.78
NEBRASKA																
LINCLN 281560002 A01	26	1.8	2.1	2.5	2.6	3.3	4.8	6.7	8.1	10.5	13.4	23.6	6.7	5.39	5.1	2.10
OMAHA 281680001 A01	26	2.3	3.5	4.4	5.5	8.1	6.6	10.3	11.5	12.7	24.0	44.3	10.3	9.09	8.0	2.01
NEW HAMPSHIRE																
CONCORD 300120001 A01	26	3.3	3.8	4.8	5.1	5.9	6.2	8.0	8.8	10.8	26.3	27.8	9.2	7.10	7.5	1.82
NEW JERSEY																
BURLINGTON CO 310660002 A01	26	3.3	6.4	7.3	7.7	8.5	9.2	10.0	10.6	11.4	17.4	24.8	10.3	4.71	9.4	1.54

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
NEW JERSEY																
CAMDEN 310720001 A01	26	8.1	9.6	12.4	13.4	14.2	15.6	16.3	20.8	22.5	23.7	35.0	17.2	6.44	16.2	1.43
ELIZABETH 311300002 A01	25	9.0	6.8	9.7	10.0	11.0	13.7	14.5	17.0	18.6	18.9	22.0	13.2	4.99	12.3	1.52
GLASSBORO 311700001 A01	26	5.3	7.5	8.7	9.4	10.9	12.0	13.0	13.7	15.9	21.8	23.3	12.6	4.75	11.8	1.48
JERSEY CITY 312320001 A01	25	3.3	8.8	9.5	10.5	12.8	14.3	14.7	15.9	17.9	22.7	28.5	14.5	5.75	13.3	1.57
NEWARK 313480001 A01	24	3.7	4.3	7.1	7.7	8.6	9.7	11.2	11.8	15.7	24.4	29.8	11.8	7.00	10.1	1.75
PATERSON 314140001 A01	23	2.7	5.7	6.7	7.2	10.0	10.8	12.5	13.2	17.5	30.0	43.9	12.7	8.69	10.7	1.83
PERTH AMBOY 314220001 A01	25	1.0	4.1	5.3	6.0	7.0	9.7	10.4	11.5	13.1	17.3	24.3	9.9	5.64	8.2	2.03
TRENTON 315400001 A01	24	7.4	8.2	8.4	9.6	10.9	11.5	14.5	17.3	20.0	24.9	47.9	15.0	8.99	13.3	1.61
NEW MEXICO																
ALBUQUERQUE 320040001 A01	26	0.0	2.2	2.6	2.8	3.6	3.9	4.4	4.9	5.0	6.5	15.4	4.2	2.78	3.5	2.00
NEW YORK																
BUFFALO 330660001 A01	24	6.2	7.0	8.9	11.3	13.7	14.2	15.3	18.0	21.7	32.3	42.5	16.9	9.41	14.8	1.68
NEW YORK CITY 334680001 A01	25	8.4	11.7	12.4	16.0	16.4	20.2	20.8	24.3	30.5	37.3	47.5	22.2	9.93	20.2	1.55
NIAGARA FALLS 334746001 A01	26	4.2	8.3	11.8	13.4	14.0	15.0	18.7	22.5	27.0	30.9	35.7	18.1	8.54	16.1	1.69
ROCHESTER 335746001 A01	26	7.1	9.6	10.9	11.7	13.6	14.0	15.0	16.2	18.4	20.8	31.8	14.9	5.33	14.1	1.40
SYRACUSE 336420001 A01	25	4.9	6.1	6.3	6.9	6.9	8.2	9.9	10.6	11.4	13.1	23.3	9.3	3.90	8.7	1.44
UTICA 336880001 A01	25	1.6	5.4	5.8	6.4	8.0	8.4	10.0	11.0	11.2	14.8	16.2	9.0	3.68	8.1	1.67
YONKERS 337620001 A01	26	5.5	6.7	8.8	9.2	10.3	10.9	12.8	15.3	16.5	18.4	23.0	12.3	4.43	11.5	1.45
NORTH CAROLINA																
CHARLOTTE 340700001 A01	26	3.1	4.4	5.3	5.5	6.2	7.1	8.4	9.3	10.4	12.8	21.8	8.1	3.90	7.4	1.33
DURHAM 341160001 A01	24	4.1	5.1	5.3	5.7	5.9	6.3	8.2	9.1	11.2	12.6	20.2	8.3	4.00	7.5	1.53
GREENSBORO 341740001 A01	26	4.2	5.2	6.6	7.4	8.0	8.5	9.7	12.5	12.9	18.4	28.0	10.3	5.43	9.3	1.58
WINSTON-SALEM 344460002 A01	24	4.3	6.0	7.6	10.0	10.5	11.3	12.1	13.5	15.9	16.7	33.6	12.5	6.56	11.3	1.59
NORTH DAKOTA																
BISMARCK 350100001 A01	26	2.8	3.5	4.1	4.3	4.5	4.7	5.5	6.5	6.8	7.7	8.0	5.5	1.84	5.1	1.34
OHIO																
CANTON 361000001 A01	25	5.3	8.9	9.8	11.3	14.0	17.7	18.8	20.0	20.2	23.5	34.0	16.7	6.66	15.3	1.54
CINCINNATI 361220001 A01	24	5.8	7.2	7.9	8.7	10.7	11.0	13.2	14.1	17.5	18.8	23.0	12.4	4.63	11.5	1.46
CLEVELAND 361300001 A01	26	3.4	9.9	13.3	13.5	14.9	16.0	18.3	20.7	23.2	29.1	41.8	16.0	7.88	14.3	1.62
DAYTON 361460001 A01	25	4.7	7.0	7.5	9.0	9.3	11.4	11.6	12.8	13.5	21.1	21.5	11.9	4.72	11.0	1.47
TOLEDO 366600001 A01	25	5.5	6.7	8.0	9.4	10.2	11.1	12.4	15.3	15.8	23.0	27.7	12.9	5.87	11.8	1.54
YOUNGSTOWN 367740001 A01	25	7.8	10.3	10.6	11.4	12.2	14.3	16.2	17.2	19.8	31.5	37.1	16.8	8.04	15.3	1.53
OKLAHOMA																
OKLAHOMA CITY 372200001 A01	25	1.1	3.0	3.3	4.3	4.8	5.2	5.5	6.6	8.5	10.5	32.4	6.7	6.00	5.3	1.95
TULSA 373000001 A01	22	0.9	1.8	2.3	2.9	5.8	6.4	8.1	9.1	11.3	12.7	25.5	7.4	5.84	5.4	2.36
OREGON																
PORTLAND 381460001 A01	22	2.4	3.1	4.3	5.0	5.6	6.0	8.9	9.3	13.9	15.8	24.0	8.8	6.07	7.1	1.94

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
PENNSYLVANIA																
ALLENTOWN																
390120001 A01	26	9.4	11.9	12.9	13.1	15.5	16.3	21.2	22.2	24.0	36.6	43.1	20.4	9.39	18.6	1.52
ALTOONA																
390140001 A01	25	13.2	15.5	18.2	21.2	25.6	27.0	30.4	34.1	37.5	55.1	63.8	30.2	13.91	27.4	1.56
BETHLEHEM																
390780002 A01	26	7.1	9.9	11.9	13.0	16.2	18.2	20.8	23.0	25.1	33.2	67.5	21.0	12.97	18.4	1.86
ERIE																
393040002 A01	26	6.3	8.3	9.3	12.0	12.4	12.9	13.5	19.7	21.5	27.3	43.4	16.5	9.45	14.5	1.65
HARRISBURG																
393890001 A01	26	4.9	7.9	8.7	9.3	11.8	12.8	16.0	17.3	17.9	26.5	64.7	16.6	12.06	13.5	1.73
JOHNSTOWN																
394460001 A01	23	8.0	10.1	12.1	12.3	13.6	15.2	16.6	17.2	20.1	29.9	34.3	16.9	7.06	15.7	1.47
PHILADELPHIA																
397140001 A01	24	8.8	10.6	11.0	14.3	15.6	18.4	22.3	24.0	33.7	39.0	55.4	21.9	11.61	19.4	1.64
PITTSBURGH																
397260001 A01	24	8.4	9.1	10.1	12.0	14.3	15.6	16.6	17.4	19.3	33.8	49.7	17.9	10.23	15.9	1.60
READING																
397620001 A01	26	6.3	9.6	10.6	12.1	14.7	16.6	17.4	24.0	26.4	30.5	39.2	18.6	8.59	16.8	1.59
SCRANTON																
398040001 A01	25	2.8	8.4	8.7	10.0	10.9	13.6	15.7	16.8	18.1	20.8	26.1	13.9	5.59	12.7	1.61
WARMINSTER																
399140001 A01	25	4.3	5.2	6.6	7.6	8.2	10.4	11.8	13.4	15.1	17.5	26.0	10.9	4.47	10.0	1.55
WILKES-BARRE																
399430001 A01	23	4.0	5.8	6.6	7.6	10.2	11.3	14.7	15.2	19.5	22.5	39.9	13.7	8.26	11.7	1.78
YORK																
399560001 A01	26	4.3	6.6	8.6	9.0	11.8	13.3	14.7	16.6	19.5	25.7	28.2	14.3	6.73	12.8	1.84
PUERTO RICO																
BAYAMON																
400380002 A01	26	0.0	3.2	4.2	5.4	6.3	6.8	7.2	7.7	8.3	10.1	12.7	6.6	2.82	5.7	2.10
CATANO																
400560002 A01	26	2.8	4.5	5.4	7.0	7.7	7.9	8.5	9.4	9.8	11.8	14.8	8.1	2.84	7.5	1.48
GUAYANILLA																
401080002 A01	25	3.3	3.4	4.0	6.8	6.8	9.3	10.0	10.7	11.4	12.6	17.1	8.7	3.70	7.8	1.84
PONCE																
401920002 A01	25	0.9	1.4	1.7	4.2	4.7	5.1	5.2	6.2	6.7	7.9	10.9	5.0	2.55	4.3	1.93
SAN JUAN																
402140001 A01	24	1.4	1.7	2.9	4.3	4.9	5.0	5.8	5.9	7.0	7.8	8.4	5.0	2.04	4.5	1.66
RHODE ISLAND																
EAST PROVIDENCE																
410120001 A01	24	3.2	4.6	5.4	6.1	7.3	8.0	13.9	15.9	20.1	24.4	26.9	12.0	7.46	9.9	1.91
PROVIDENCE																
410300001 A01	26	5.2	7.3	8.1	8.9	9.7	10.3	13.0	13.4	16.4	22.9	32.8	12.9	6.43	11.7	1.54
SOUTH CAROLINA																
GREENVILLE																
421180001 A01	26	2.9	5.7	7.2	8.7	9.4	10.0	10.2	12.1	15.9	17.7	61.1	12.5	11.27	10.0	1.91
TENNESSEE																
CHATTANOOGA																
440580001 A01	26	2.9	5.5	7.0	7.9	8.8	9.3	10.7	11.4	12.4	13.9	22.4	10.0	4.07	9.2	1.55
MEMPHIS																
442340001 A01	26	1.2	2.4	3.5	4.2	5.2	5.6	6.2	7.1	7.6	12.7	25.9	6.9	4.91	5.3	1.89
NASHVILLE																
442540001 A01	25	0.7	1.6	2.6	4.3	5.1	6.3	6.9	8.5	9.7	16.7	21.9	7.5	5.57	5.7	2.30
TEXAS																
DALLAS																
451310002 A01	26	1.5	2.5	3.3	4.0	4.3	4.5	6.1	6.6	8.2	12.2	23.4	6.4	4.94	5.2	1.88
EL PASO																
451700002 A01	26	3.6	4.5	5.2	5.2	6.3	6.5	6.8	8.1	8.6	9.1	11.2	6.8	1.91	6.5	1.34
FORT WORTH																
451880001 A01	26	1.4	3.2	3.7	3.8	4.1	4.7	5.2	6.4	6.9	9.0	11.7	5.2	2.39	4.7	1.60
HOUSTON																
452360001 A01	24	3.6	3.7	3.8	4.4	4.4	4.8	6.8	7.9	9.0	10.8	13.4	6.5	2.90	5.9	1.53
PASADENA																
454060002 A01	26	2.7	4.8	5.1	5.4	7.9	8.7	9.0	11.9	12.9	18.8	32.5	10.1	6.39	8.6	1.76
SAN ANTONIO																
4545700.. A01	26	2.0	2.2	2.4	2.4	2.8	3.0	3.3	4.3	5.4	6.3	12.4	3.9	2.36	3.5	1.60

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
UTAH																
OGDEN																
440880001 A01	26	1.6	2.4	3.4	3.5	3.8	4.1	4.6	5.0	5.6	6.7	7.3	4.4	1.90	4.1	1.45
SALT LAKE CITY																
440920001 A01	25	2.0	2.9	3.2	3.6	4.1	4.5	5.5	6.5	7.2	8.0	9.4	5.2	2.17	4.8	1.55
VERMONT																
BURLINGTON																
470140001 A01	23	1.7	4.4	7.4	8.1	9.5	10.3	11.3	14.9	17.8	19.3	33.4	12.0	6.93	10.1	1.91
VIRGINIA																
DANVILLE																
480620001 A01	25	3.0	4.7	5.8	8.7	8.8	9.6	10.2	11.6	12.7	17.6	27.2	10.5	5.32	9.3	1.66
HAMPTON																
481440001 A01	25	1.1	4.6	5.2	5.8	6.6	9.5	9.6	11.7	12.1	16.0	20.9	9.2	4.55	8.0	1.84
LYNCHBURG																
481840001 A01	26	4.4	5.4	6.7	7.0	7.8	7.9	10.1	11.4	12.3	14.7	26.4	10.1	5.42	9.1	1.56
NEWPORT NEWS																
482120001 A01	26	4.0	4.9	5.8	6.6	6.8	7.7	8.0	10.6	11.0	14.8	18.7	8.8	3.62	8.1	1.47
NORFOLK																
482140001 A01	26	2.7	5.2	6.5	7.1	8.3	8.7	10.4	11.0	11.7	14.4	20.8	9.5	3.94	8.7	1.58
PORTSMOUTH																
482440001 A01	26	4.1	6.0	8.4	8.7	9.5	10.4	11.8	12.9	13.5	15.8	22.0	11.1	4.09	10.4	1.46
RICHMOND																
482660002 A01	24	5.7	6.1	6.6	7.3	7.5	8.3	10.4	12.0	14.1	14.4	21.2	10.3	4.38	9.5	1.47
ROANOKE																
482700001 A01	25	6.9	7.9	8.0	9.3	10.1	12.3	13.1	15.0	17.9	27.6	34.9	14.7	8.39	13.0	1.63
WASHINGTON																
SEATTLE																
491840001 A01	25	3.7	4.3	4.6	5.0	5.3	5.9	6.2	7.2	7.4	8.3	22.2	6.6	3.94	6.1	1.43
SPOKANE																
492040001 A01	26	1.3	1.8	2.6	3.2	3.7	3.9	4.3	4.7	5.7	8.9	9.5	4.4	2.25	3.9	1.67
TACOMA																
492140001 A01	26	4.1	4.8	6.0	6.0	6.0	7.1	7.3	7.8	8.8	11.8	13.3	7.4	2.26	7.1	1.33
WEST VIRGINIA																
CHARLESTON																
500250001 A01	26	8.4	11.1	13.4	14.2	14.7	18.1	20.8	23.5	39.3	50.3	81.1	25.0	17.98	20.6	1.83
SOUTH CHARLESTON																
501740001 A01	26	5.9	7.2	8.5	10.2	11.4	12.5	15.6	18.7	21.9	31.4	34.8	15.5	8.29	13.7	1.65
WISCONSIN																
EAU CLAIRE																
510840002 A01	24	4.3	5.6	5.6	6.7	7.1	7.2	8.2	9.2	11.4	14.3	20.1	8.6	3.67	8.0	1.45
KENOSHA																
511940001 A01	24	3.3	5.0	5.2	6.9	7.7	9.1	9.2	10.2	12.8	18.4	25.4	9.9	5.48	8.7	1.65
MADISON																
511840001 A01	27	2.0	3.8	5.1	6.7	7.2	7.8	8.2	8.4	9.7	11.9	24.5	8.0	4.19	7.2	1.62
MILWAUKEE																
512200001 A01	26	2.9	4.9	5.2	6.1	7.3	9.3	10.4	11.4	12.8	18.8	26.1	10.0	5.77	8.7	1.72
RACINE																
512880001 A01	24	3.7	4.6	5.4	6.4	6.8	7.4	8.0	9.3	12.1	13.9	30.4	9.0	5.55	8.0	1.61
SUPERIOR																
513480001 A01	24	2.7	4.4	5.2	5.9	6.1	6.5	6.8	7.6	9.1	12.6	23.0	7.8	4.34	7.0	1.57
WYOMING																
CASPER																
520120001 A01	26	2.4	3.0	3.9	4.3	4.7	4.7	5.0	5.2	5.8	6.5	6.9	4.7	1.22	4.6	1.33
CHEYENNE																
520140001 A01	23	1.1	1.5	1.9	2.1	2.3	2.7	3.1	3.4	4.0	4.5	5.5	2.9	1.15	2.7	1.52

Table 6-4. SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA																
GRAND CANYON NAT P 030370001 A03	25	1.4	1.6	1.8	2.0	2.2	2.5	2.6	3.1	3.7	5.6	6.4	2.9	1.42	2.6	1.55
ARKANSAS																
MONTGOMERY CO 041760001 A03	22	1.1	2.6	3.0	3.6	4.4	5.2	5.4	6.6	8.2	9.1	11.0	5.4	2.59	4.8	1.73
CALIFORNIA																
HUMBOLDT CO 093300001 A03	23	1.5	2.4	2.6	2.7	2.9	2.9	3.0	3.6	4.0	4.6	7.2	3.3	1.16	3.2	1.37
COLORADO																
MESA VERDE NAT PAR 061930002 A03	25	1.8	2.2	2.3	2.6	2.8	3.0	3.3	3.6	4.0	4.7	5.3	3.2	0.97	3.1	1.35
FLORIDA																
HARDEE CO 101680001 A03	26	1.4	2.1	3.3	3.7	4.5	5.0	5.6	7.3	7.7	10.9	12.7	5.6	2.93	4.9	1.73
IDAHO																
BUTTE CO 130340001 A03	26	0.0	1.0	1.1	1.3	1.8	1.8	2.2	2.3	2.6	3.8	4.0	2.1	0.99	1.8	1.81
INDIANA																
MONROE CO 152080001 A03	24	2.5	3.2	3.7	5.9	6.6	7.1	7.6	8.2	9.2	12.0	23.3	7.5	4.39	6.6	1.70
PARKE CO 153260001 A03	25	1.2	7.2	8.9	10.0	10.3	11.9	15.1	17.0	18.0	19.8	29.3	13.5	6.52	11.4	2.06
MAINE																
ACADIA NAT PARK 200010001 A03	26	0.0	3.1	4.0	4.3	5.2	5.6	6.9	9.5	10.0	12.3	16.2	7.0	3.91	5.7	2.24
MISSOURI																
SHANNON CO 264480002 A03	25	1.8	2.4	3.4	3.6	3.8	4.0	4.4	5.7	6.9	12.0	18.4	5.7	3.98	4.8	1.76
NEBRASKA																
THOMAS CO 282480001 A03	22	0.0	1.2	1.3	1.5	1.7	1.9	2.3	2.4	3.1	3.3	6.7	2.2	1.33	1.9	1.89
NEVADA																
WHITE PINE CO 290560001 A03	24	0.0	0.0	1.2	1.7	2.2	2.2	2.4	2.7	3.5	4.1	4.8	2.3	1.24	1.8	2.35
NEW HAMPSHIRE																
COOS CO 300140001 A03	25	2.9	3.9	4.1	4.5	5.4	5.8	6.0	7.3	8.2	9.7	18.9	6.5	3.22	6.0	1.49
NEW YORK																
JEFFERSON CO 333340081 A03	26	4.1	4.7	5.4	5.8	6.3	8.5	9.2	10.8	12.5	16.7	22.5	9.4	4.76	8.4	1.60
NORTH CAROLINA																
CAPE HATTERAS NAT 340590001 A03	24	4.4	6.6	8.4	10.4	10.6	11.8	12.3	12.9	15.3	17.7	20.9	11.9	4.00	11.2	1.44
OKLAHOMA																
CHEROKEE CO 370480001 A03	24	3.1	4.5	5.7	6.0	6.5	7.2	8.4	9.1	12.1	19.0	34.1	9.9	7.32	8.3	1.76
OREGON																
CURRY CO 380440001 A03	24	2.7	3.1	3.7	4.0	4.6	4.9	5.2	5.3	5.8	6.0	7.5	4.8	1.29	4.7	1.32
PENNSYLVANIA																
CLARION CO 391760001 A03	26	5.1	6.0	7.6	7.7	8.9	10.3	12.2	15.9	17.5	23.3	25.3	12.4	6.12	11.1	1.61
RHODE ISLAND																
WASHINGTON CO 410380002 A03	24	2.1	2.3	3.0	4.8	5.0	6.4	8.4	8.8	11.3	14.6	20.5	7.7	5.08	6.3	1.97
TENNESSEE																
CUMBERLAND CO 440680001 A03	22	2.8	5.3	6.1	6.7	7.5	8.2	9.4	10.0	12.0	14.1	14.6	8.7	3.20	8.1	1.49
TEXAS																
MATAGORDA CO 455350001 A03	25	2.3	3.2	3.6	4.2	4.5	4.7	5.8	7.4	9.0	12.6	14.8	6.5	3.70	5.6	1.71
TOM GREEN CO 455290001 A03	25	1.3	1.7	2.0	2.6	3.0	3.6	3.9	4.6	5.0	5.7	7.0	3.7	1.53	3.3	1.58
VERMONT																
ORANGE CO 470360001 A03	26	2.7	4.2	5.2	5.5	6.2	6.6	6.8	8.4	11.7	14.6	18.9	8.0	4.09	7.2	1.60
VIRGINIA																
SHENANDOAH NAT PAR 482890001 A03	25	2.5	4.2	4.8	6.1	7.1	8.0	8.2	9.9	10.6	20.5	22.3	9.2	4.39	7.9	1.75
WYTHE CO 483440001 A03	24	4.0	5.0	5.7	6.0	7.1	7.5	7.9	10.6	11.7	13.4	20.2	8.7	4.01	8.0	1.53

Table 6-4 (continued). SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

($\mu g/m^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
WASHINGTON																
KING CO																
490980002 A83	24	0.8	1.4	1.5	1.6	2.0	2.1	2.7	3.3	3.6	4.3	4.8	2.6	1.14	2.3	1.60